Appendix F Wildlife Observed at the Whisper Creek 1 Site

Common Name Scientific Name

Amphibians and Reptiles

Pacific chorus frog Pseudacris regilla
Western fence lizard Sceloporus occidentalis

Birds

Acom woodpecker Melanerpes formicivorus
American Crow Corvus brachyrhynchos

American goldfinch

Carduelis tristis

American robin

Turdud migratorius

Cabuta and a

Anna's hummingbird Calypte anna

Bewick's wren Thryomanes bewickii
Black phoebe Sayornis nigricans

Brewer's blackbird Euphagus cyanocephalusci

Bullock's oriole Icterus bullockii
Bushtit Psaltriparus minimus

Dark-eyed junco

Downy woodpecker

European Starling

Junco hyemalis

Picoides pubescens

Sturms vulgaris

Golden-crowned sparrow

Zonotrichia atricapilla

House finch

Carpodacus mexicanus

Passer domesticus

House sparrow Passer domesticus
House Wren Troglodytes aedon
Killdeer Charadrius vociferous
Lesser goldfinch Carduelis psaltria

Lincoln's sparrow

Melospiza lincolnii

Mourning dove

Zenaida macroura

Northern flicker

Northern mockingbird

Nuttall's woodpecker

Melospiza lincolnii

Zenaida macroura

Colaptes auratus

Mimus polyglottos

Picoides nuttallii

Oak titmouse Baeolophus inoratus
Red-shouldered hawk Buteo lineatus
Red-tailed hawk Buteo jamaicensis

Red-winged blackbird Agelaius phoeniceus
Ring-necked pheasant Phasianus colchicus

Rock dove Columba livia

Ruby-crowned kinglet

Song sparrow Spotted towhee Turkey vulture

Western kingbird Western meadowlark

Western scrub-jay

White-crowned sparrow Yellow-billed magpie

Yellow-rumped warbler

Mammals

Black-tailed jackrabbit California ground squirrel Regulus calendula Melospiza melodia

Pipilo maculates

Cathartes aura

Tyrannus verticalis Sturnella neglecta

Aphelocoma californica Zonotrichia leucophrys

Pica nuttalli

Dendroica coronata

Lepus californicus Spermophilus beecheyi Insert color separator Sheet here!

PRELIMINARY BIOLOGICAL RESOURCE ASSESSMENT

For

PFE 36 PROPERTY

(PLACER COUNTY, CALIFORNIA)

September 27, 2002

Prepared for: **Towne Reality, Inc.**



BIOLOGICAL RESOURCE ASSESSMENT

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PFE 36 PROPERTY

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INTRODUCTION

On behalf of Towne Reality, Inc., ECORP Consulting, Inc. has conducted a preliminary biological resource assessment of the PFE 36 site in Placer County, California. The PFE 36 property is a 36-acre undeveloped parcel within unincorporated western Placer County, west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes that front Meandering Way, on the west by undeveloped lands and rural residences, on the north by PFE Road, and on the east by Oly Lane and rural residences. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey) (Figure 1).

METHODOLOGY

The field assessment was conducted by ECORP biologist Keith Kwan on July 16, 2002, during which time meandering transects were walked through the site, and any potentially jurisdictional waters of the U. S., special-status species or their habitats, and other unique biological features (e.g., native oak trees, riparian habitat) were noted.

Waters of the U.S., if any, were located by visual observations, but three-parameter data were not collected according to *Corps of Engineers Wetlands Delineations Manual* (Environmental Laboratory 1987). The results of this reconnaissance-level wetland assessment are primarily based upon vegetation and obvious hydrologic characteristics.

The special-status species assessment included a taxa-specific literature review, a California Department of Fish and Game Natural Diversity Data Base query, and a reconnaissance-level field survey. Special-status wildlife species observations were made via binoculars and a spotting scope.

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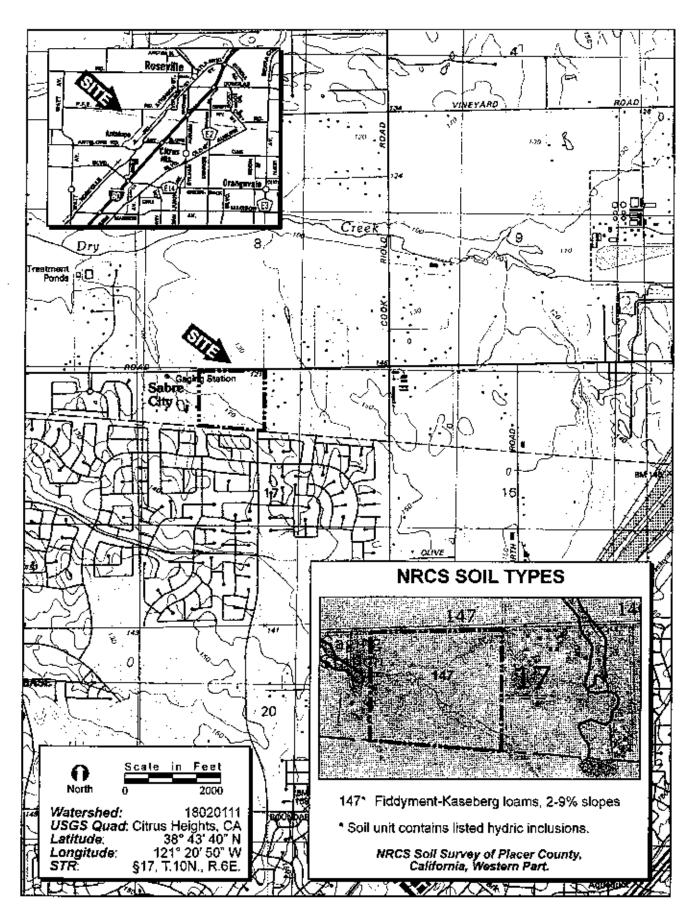


FIGURE 1. Project Site and Vicinity Map

For the purposes of this assessment, "special-status" refers to those species that:

- Have been designated by the California Department of Fish and Game (CDFG) or the U.S. Fish and Wildlife Services (USFWS) as either *rare, threatened,* or *endangered*, and are legally protected under the California or federal endangered species acts;
- Are proposed or candidate species being considered for listing under either federal or California Endangered Species Acts; or
- Are of expressly stated interest to resource regulatory agencies, or local jurisdictions, such as CDFG species of special concern, USFWS species of concern, or California Native Plant Society (CNPS) List species.

This assessment of potentially occurring special-status plant and wildlife species is based upon available resources, as described above, and a reconnaissance-level field survey conducted on July 16, 2002. All wildlife and plant species identified on-site during this field survey are reported in Attachment A.

RESULTS

PPE 36 is currently comprised of non-native annual grassland, willow scrub riparian habitat, and ephemeral drainages and swales. The site topography is gently rolling, and is situated at an elevation of approximately 120 feet above mean sea level. The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium mulitflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*).

The riparian willow scrub vegetation community is present in association with a seasonal wetland drainage that receives runoff from the adjacent housing subdivision to the south. The riparian vegetation is comprised primarily of willow species (*Salix* spp.) and Fremont

cottonwood (*Populus fremontii*), with scattered Himalaya blackberry (*Rubus discolor*) and Valley oak (*Quercus lobata*). Understory vegetation is made up of a mixture of upland and wetland plants such as bull thistle (*Cirsium vulgare*), South American vervain (*Verbena bonariensis*), dallissgrass (*Paspalum dilatatum*), annual rabbit-foot grass (*Polypogon monspeliensis*), and ryegrass. A list of plants and wildlife observed on-site is included as Attachment A.

One soil unit has been mapped for the entire site, (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes (USDA, NRCS 1980).

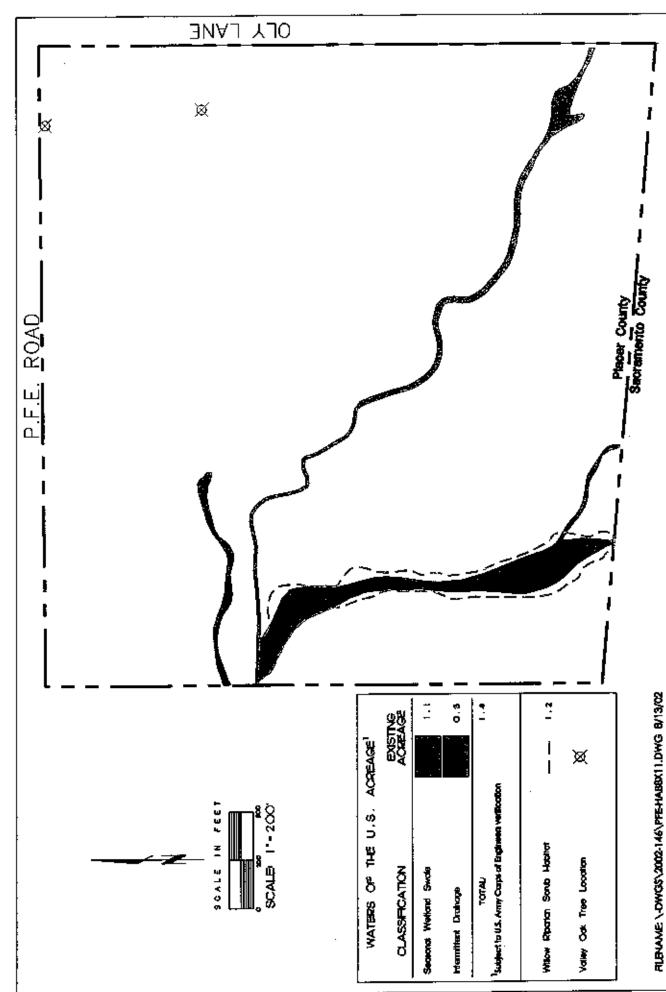
Waters of the U.S.

During this field assessment, several potentially jurisdictional waters of the U. S. were observed within the PFE 36 site. These include wetlands (i.e., seasonal wetland swales) and other waters (i.e., intermittent drainages) (Figure 2). Based upon this initial reconnaissance-level field survey, there are a total of 1.1 acres of seasonal wetland swales and 0.3 acres of intermittent drainages on-site. If verified by the Corps of Engineers as waters of the U.S., these features would be regulated pursuant to Section 404 of the Clean Water Act.

While not constituting waters of the U.S. *per se*, the willow riparian scrub community along the seasonal wetland swale would likely be regulated under Section 1600- of the California Fish and Game Code. Any impacts to the riparian vegetation would require a Streambed Alteration Agreement.

Special-Status Species

No special-status species were observed during this field reconnaissance. However, habitats present on-site may be considered potentially suitable for several regionally occurring special-status species (Table 1).



ECORP Consulting, Inc. Environmental Consultants

FIGURE 2. Wettand and Regulated Habitat Assessment

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Table 1. PFE 36 - Potentially Occurring Special-Status Species

		Federal	State	Other		Approximate
Соттоп Кате	Scientific Name	Status	Status	Status	Habitat Description	Survey Dates
Plants						
Sanford's arrowhead	Sagittaria sanfordii		1	FSC, 1B	marsh, creeks, ditches	May-August
Birds						
 White-tailed kite 	Elanus feucurus	•		CFP, MNB	woodland, grassland	April-June
 Northern harrier 	Grass syaneus	•		Š	marsh, grassland	June-July
Swainson's hawk	Buteo swainsoni	•	ţ		grassland, riparian	March-July
Femoginaus hawk	Buteo regalis	,	,	CSC, MNB	grassland	November-February
Golden eagle	Aquita chrysaetos			CFP, CSC, CDF	grassland	November-February
Medin	Falco columbarius	•		SS	woodland, grassland	September-April
Mountain plover	Charadrius montanus	FPT		CSC, MNB	grassland, pasture	October-March
Long-billed curlew	Numenius americanus	•		CSC, MNB	grassland, pasture	September-March
Burrowing owl	Athene cunicularia			CSC, MNB, BLM	grassland	April-July
Loggerhead strike	Lanius fudovicianus			CSC, MNB	grassland, woodland	April-May
Tricolored blackbird	Agelaius tricolor			CSC, MNB, BLM	marsh, grassland	April-June

Status Codes:

PPT - Formally Proposed for federal listing as Threatened.
FSC • U. S. Fish and Wildlife Service Species of Concern
MNB • U. S. Fish and Wildlife Service Algratory Norgame Birds of Management Concern
BLM • Bureau of Land Management Sensitive Species
CT • California listed, Threatened.
CFP • Fish and Game Code of California Fully Protected Species (§35.11-birds, §4700-mammals, §5050-reptiles/amphibians).
CSC • California Department of Fish and Game Species of Special Concern.
CDF • California Department of Forestry Sensitive Species

18 - California Native Plant Society/Rare or Endangered in California and elsewhere

Portions of the seasonal wetland swales and intermittent drainages on-site represent potentially suitable habitat for one special-status plant species, Sanford's arrowhead (*Sagittaria sanfordii*). No Sanford's arrowhead were observed during this reconnaissance-level survey.

Of the special-status wildlife species that may occur on-site, six are potentially nesting birds, and five are non-nesting birds that include migrants or winter residents during the non-nesting season. The potentially nesting special-status birds include white-tailed kite (*Elanus leucurus*), northern harrier (*Circus cyaneus*), Swainson's hawk (*Buteo swainsoni*), burrowing owl (*Athene cunicularia*), loggerhead shrike (*Lanius ludovicianus*), and tricolored blackbird (*Agelaius tricolor*). Other potentially occurring special-status birds do not nest in this region. These non-nesting migrants and/or winter residents include ferruginous hawk (*Buteo regalis*), golden eagle (*Aquila chrysaetos*), Merlin (*Falco columbarius*), mountain plover (*Charadrius montanus*), and long-billed curlew (*Numenius americanus*). During the July 2002 field assessment, no special-status birds or other wildlife species were observed on-site.

Two Valley Oaks (*Quercus lobata*) were observed in the northeastern corner of the site. While not considered special-status species as defined, Valley Oaks are regulated by the Placer County Tree Preservation Ordinance.

CONCLUSION

During this field assessment and survey, several potentially jurisdictional waters of the U. S. totaling approximately 1.4 acres were observed within the PFE 36 site. If impacts to more than 0.5 acre are proposed, an application for an Individual Permit would need to be submitted to the Corps of Engineers (Corps) to obtain authorization under Section 404 of the Clean Water Act.

Impacts of less than ½ acre and involving less than 300 lineal feet of streambed (perennial or intermittent) may (at the Corp's discretion) be authorized under Nationwide Permit No. 39. Impacts to the intermittent drainage (and/or the willow riparian scrub habitat) would require negotiation of a Streambed Alteration Agreement with the California Department of Fish and

Game. No special-status species were observed. However, suitable habitat for some species was identified. The vegetation communities and habitats on-site represent potentially suitable habitat for one special-status, wetland-inhabiting plant, Sanford's arrowhead; and nesting habitat for several species-status birds, including white-tailed kite, northern harrier, Swainson's hawk, burrowing owl, loggerhead shrike, and tricolored blackbird.

Swainson's hawk is listed under the California Endangered Species Act as "threatened". Conversion of Swainson's hawk foraging habitat may be considered by the CEQA lead agency to represent a significant impact requiring mitigation. The other bird species have lesser legal protection; however, the California Fish and Game Code and the Migratory Bird Treaty Act prohibit disturbance to any active nests of any of these species. Prior to commencement of site disturbance or construction activities (including clearing, grading, and/or grubbing), a survey should be conducted by a qualified biologist to determine whether any of these special-status birds are nesting on-site. If nesting birds are found, the CEQA lead agency will determine the measures necessary to avoid or mitigate adverse impacts to the nesting birds. Typically, construction activities may be delayed until young have fledged. Fill in Wetlands or waters constituting habitat for Sanford's arrowhead may also be considered by the CEQA lead agency to represent a significant impact requiring mitigation. Finally, the two Valley oaks will be subject to the Placer County Tree Preservation Ordinance.

REFERENCES

- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U. S. Army Engineer Waterways Experiment Station. Vicksburg, MS.
- U. S. Department of Agriculture, Soil Conservation Service. 1993. Soil Survey of Sacramento County, California. U.S. Department of Agriculture, Soil Conservation Service. Davis, CA.

ATTACHMENT A

Plants and Wildlife Species Observed On-Site

PFE 36 Property - Plants Observed On-site (July 16, 2002)

Scientific Name	Common Name	Scientific Name	
Amsinckia species	Fiddle-neck	Salix gooddingii	
Anthemis cotula	Mayweed	Salix lasiolepis	
Artemisia douglasiana	Mugwort	Scirpus acutus	
Avena fatua	Wild oat	Senecio vulgaris	
Brassica rapa	Field mustard	Silene gallica	
Briza minor	Little quaking grass	Sorghum halepense	
Brodiaea species	Brodiaea	Taeniatherum caput-medusae	
Bromus diandrus	Ripgut brome	Trichostema lanceolatum	1
Bromus hordeaceus	Soft brome	Trifolium hirtum	
Capsella bursa-pastoris	Shepherd common purse	Triphysaria eriantha	
Carex species	Sedge	Typha latifolia	
Centaurea solstitialis	Yellow star-thistle	Verbena bonariensis	
Cirsium vulgare	Bull thistle	Vicia species	,
Convolvulus arvensis	Marning glory	Xanthium strumarium	
Conyza canadensis	Canada horseweed	NEATHING TO BUILDING	
Cyperus eragrostis	Tall flatsedge		
Dichelostemma capitatum	Blue dicks		
•			
Eleocharis macrostachya	Creeping spikerush		
Epilobium ciliatum	Hairy willow-herb		
Erodium botrys	Filaree		
Eucalyptus globulus	Blue gum		
Galium species	Bedstraw		
Geranium dissectum	Cut-leaved geranium		
Helianthus annuus	Common sunflower		
Hemizonia fitchii	Fitch's spikeweed		
Heracleum lanatum	Cow parsnip		
Holocarpha virgata	Sticky tarweed		
Hordeum marinum	Mediterranean barley		
Hordeum murinum	Barley		
Hypochaeris glabra	Smooth cat's-ear		
Juncus bufonius	Toad rush		
Lactuca serriola	Prickly lettuce	-	
Lolium multiflorum	Ryegrass		
Lotus purshianus	Spanish clover		
Medicago polymorpha	Bur dover		
Paspalum dilatatum	Dallis grass		
Plantago lanceolata	English plantain		
Polygonum persicaria	Lady's thumb		
Populus fremontli	Fremont's cottonwood		
Prunus species	Cultivated fruit tree		
Quercus lobata	Valley oak		
Ranunculus muricatus	Spiny-fruit buttercup		
Raphanus sativus	Purple wild radish		
Rumex crispus	Curly dock		
Rumex cuspus Rumex pulcher	Fiddle dock	•	
•	Sandbar willow		
Şalix exigua	Sanodar Willow		

Common Name
Goodding's black willow

Arroyo willow Hard-stem bulrush Common groundsel

Catchfly

PFE Property - Wildlife Observed On-Site (July 16, 2002)

Common Name	Scientific Name
Amphibians and Reptiles	
Pacific chorus frog	Pseudacris regilla
Western fence lizard	Sceloporus occidentalis
Dind	
<u>Birds</u>	
Red-tailed hawk	Buteo jamaicensis
Killdeer	Charadrius vociferus
Mourning dove	Zenaida macroura
Anna's hummingbird	Calypte anna
Acorn woodpecker	Melanerpes formicivorus
Downy woodpecker	Picoides pubescens
Western kingbird	Tyrannus verticalis
Western scrub-jay	Aphelocoma californica
Oak titmouse	Baeolophus inornatus
Bewick's wren	Thryomanes bewickii
American robin	Turdus migratorius
Northern mockingbird	Mimus polyglottos
·European starling	Sturnus vulgaris
Western meadowlark	Sturnella neglecta
Bullock's oriole	Icterus bullockii
House finch	Carpodacus mexicanus
House sparrow	Passer domesticus
Mammals	
Black-tailed jackrabbit	Lepus californicus
California ground squirrel	Spermophilus beecheyi
Comorma ground squirrei	эреннорина х вееспеут

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PRELIMINARY WETLAND AND SPECIAL-STATUS SPECIES ASSESSMENT

FOR

PFE 14 PROPERTY

PLACER COUNTY, CALIFORNIA

JANUARY 3, 2003

PREPARED FOR:
COUNTY BUILDERS, LLC



PRELIMINARY WETLAND AND SPECIAL-STATUS SPECIES ASSESSMENT

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LIST OF ATTACHMENTS

Attachment A – Plants and Wildlife Observed On-Site

Attachment B - CNDDB Printout for Citrus Heights Quadrangle

INTRODUCTION

On behalf of County Builders, LLC, ECORP Consulting, Inc. has conducted a preliminary wetland and special-status species assessment of the PFE 14 site in Placer County, California. The PFE 14 property is a 13.5-acre undeveloped parcel within unincorporated western Placer County, west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes that front Copper Ridge Way and English Hills Way, on the east and west by undeveloped lands and rural residences, and on the north by PFE Road. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey) (Figure 1).

METHODOLOGY

The field assessment was conducted by ECORP biologist, Keith Kwan, on December 12, 2002, during which time meandering transects were walked through the site, and any potentially jurisdictional waters of the U.S., special-status species or their habitats, and other unique biological features (e.g., native oak trees, riparian habitat) were noted.

Waters of the U.S., if any, were located by visual observations, but three-parameter data were not collected according to protocol outlined in the *Corps of Engineers Wetlands Delineations Manual* (Environmental Laboratory, 1987). The results of this reconnaissance-level wetland assessment are primarily based upon vegetation and obvious hydrologic characteristics.

The special-status species assessment included a taxa-specific literature review, a California Department of Fish and Game Natural Diversity Data Base (CNDDB) (CDFG, 2002) query, and a reconnaissance-level field survey. Special-status wildlife species observations were made via binoculars and a spotting scope.

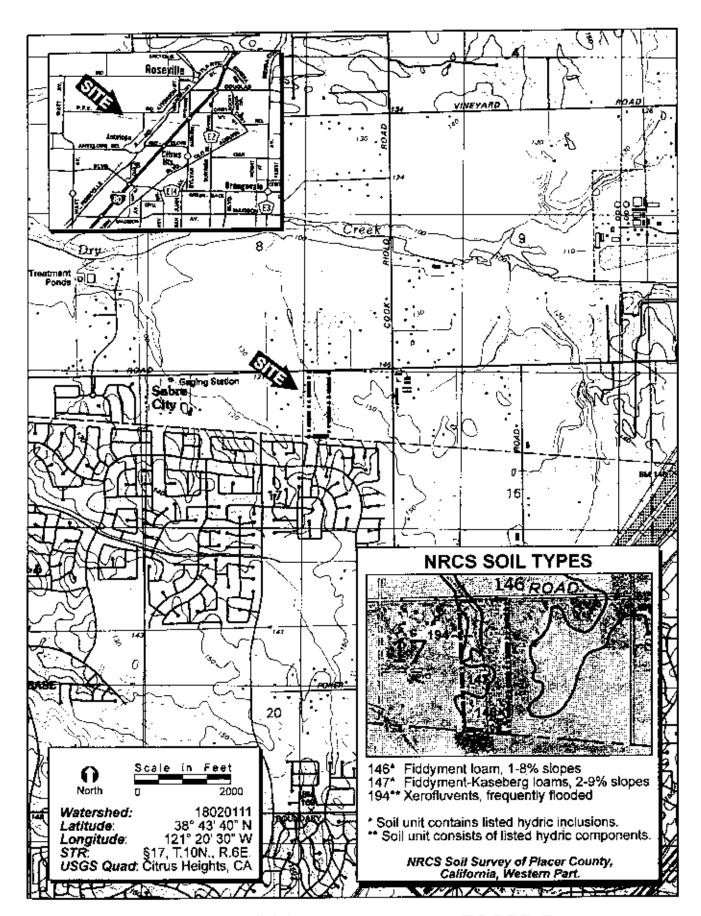


FIGURE 1. Project Site and Vicinity

For the purposes of this assessment, "special-status" refers to those species that:

- Have been designated by the California Department of Fish and Game (CDFG) or the U.S. Fish and Wildlife Services (USFWS) as either rare, threatened, or endangered, and are legally protected under the California or federal endangered species acts;
- Are proposed or candidate species being considered for listing under either federal or California Endangered Species Acts; or
- Are of expressly stated interest to resource regulatory agencies, or local jurisdictions, such as CDFG species of special concern, USFWS species of concern, or California Native Plant Society (CNPS) List species.

This assessment of potentially occurring special-status plant and wildlife species is based upon available resources, as described above, and a reconnaissance-level field survey conducted on December 12, 2002.

RESULTS

PFE 14 is currently comprised of non-native annual grassland, orchard, and rural residential. The site topography is gently rolling, and is situated at an elevation of approximately 120 feet to 140 feet above mean sea level. The southern portion of the site is made up of non-native annual grassland with a rural residence and scattered outbuildings. A small enclosure is currently being grazed by goats. Non-native trees in this area include sweet gum (*Liquidambar styraciflua*) and blue gum (*Eucalyptus globulus*). The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and rose clover (*Trifolium hirtum*).

The northern half of the site is comprised of almond (*Prunus dulcis*). The trees within the orchard are evenly spaced throughout the site and average approximately 20 feet in height.

The understory of the trees is made up of non-native annual grassland. Several blue oaks (*Quercus douglasii*) are located at the perimeter of the orchard. A list of plants and wildlife observed on-site is included as Attachment A.

One soil unit has been mapped for the entire site, (146) Fiddyment loam, 1 to 8 percent slopes, (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes, and (194) Xerofluvents, frequently flooded (USDA, NRCS 1980) (Figure 1).

Waters of the U.S.

During this field assessment, one potentially jurisdictional water of the U.S. was observed. A seasonal wetland swale runs through the site and flows from the south to north. The swale totals approximately 1.5 acres (Figure 2). This wetland feature is located within a topographic swale and has dominant hydrophytic plants, but does not have a bed-and-bank condition (i.e., stream or creek). If verified by the Corps of Engineers as water of the U.S., this feature would be regulated pursuant to Section 404 of the Clean Water Act.

Special-Status Species

One special-status species was observed during this field reconnaissance, a white-tailed kite (*Elanus leucurus*). This individual was not observed nesting, as white-tailed kites nest during the spring, generally April through June.

According to the CNDDB, there are no previously documented occurrences of special-status species within the PFE 14 site (Attachment 8). However, habitats present on-site may be considered potentially suitable for several regionally occurring special-status species (Table 1). These include four potentially nesting bird species. Due to the absence of suitable habitat, there are no potentially occurring special-status plants, invertebrates, fish, amphibians, or reptiles on the project site.

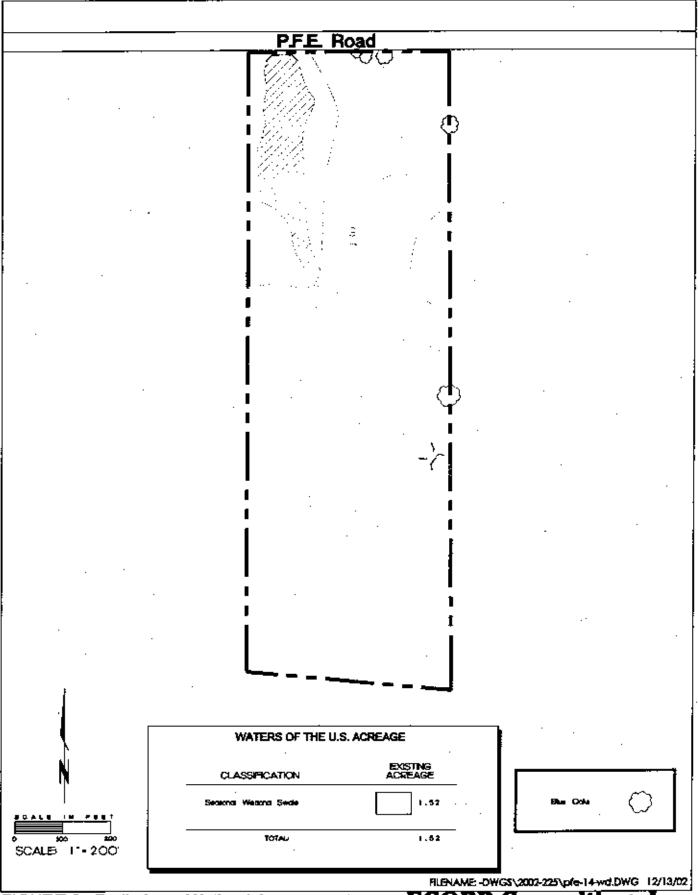


FIGURE 2. Preliminary Wetland Assessment

ECORP Consulting, Inc.

2003-225 PFS 14

		Federal	State	Other		Approximate
Common Name Sirds	Scientific Name	Status	Stalus	Status	Habitat Description	Survey Dates
White-tailed kite (nesting)	Blanus feuturus	•		GPP, MINB	woodland, grassland	April-June
Cooper's hawk (nesting)	Accipiter cooperii			ÇŞC	woodland	April-June
Loggerhead shrike	Lanius fudovidanus			CSC, MAB	grassland, woodland	April-May
ng}	Chondestes grammacus			MMB	oak woodland, scrub	year round res.

NNB - U. S. Figl. and Widthe Service Migratory Nongame Birds of Nanagement Concern

BLM - Burgau of Land Management Sensine Species PS - U, S, Forest Sendor Sensitive Species

CFP - Fish and Game Code of Callibrate FLRy Protected Species (§3511-birds, §4/20) mammals, §5050 reprincy/amphdysors).
CSC - California Department of Fish and Game Species of Special Concern.

Potential nesting special-status birds include white-tailed kite (*Elanus leucurus*), Cooper's hawk (*Accipiter cooperii*), loggerhead shrike (*Lanius ludovicianus*), and lark sparrow (*Chondestes grammacus*). In general, the nesting season for these species is April through June.

Five blue oaks (*Quercus douglasii*) are located along the perimeter of the orchard on the northern and eastern boundaries of the site. While not considered special-status species as defined, blue oaks are regulated by the Placer County Tree Preservation Ordinance (County of Placer, 1991).

CONCLUSION

During this field assessment and survey, potentially jurisdictional waters of the U.S. totaling approximately 1.5 acres of seasonal wetland swale were noted within the PFE 14 site. Fill of more than 0.5 acre of waters of the U.S. would require authorization under Section 404 of the Clean Water Act via submittal of an Individual Permit application. Fill of less than 0.5 acre of waters may (at the Corp's discretion) be authorized under Nationwide Permit No. 39.

Suitable habitat for special-status species was identified. The vegetation communities and habitats on-site represent potentially suitable nesting habitat for several species-status birds, including white-tailed kite, Cooper's hawk, loggerhead shrike, and lark sparrow. These bird species are not listed and protected pursuant to either California or federal Endangered Species Act, but have legal protection through the California Fish and Game Code and the Migratory Bird Treaty Act, which prohibit disturbance to any active nests of any of all bird species. Prior to commencement of site disturbance or construction activities (including clearing, grading, and/or grubbing), a survey should be conducted by a qualified biologist to determine whether any of these special-status birds are nesting on-site. If nesting birds are found, the CEQA lead agency will determine the measures necessary to avoid or mitigate adverse impacts to the nesting birds. Typically, construction activities may be delayed until the young have fledged.

Finally, the blue oaks will be subject to the Placer County Tree Preservation Ordinance. Any impacts to native oak trees would require mitigation, which may include replacement tree plantings, a revegetation plan, or fee payment to the County (based on current market value).

REFERENCES

- California, State of. No Date. California Fish and Game Code.
- California Department of Fish and Game. 2002. *Rarefind 2* personal computer program. Sacramento, CA.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U. S. Army Engineer Waterways Experiment Station. Vicksburg, MS.
- Placer, County of. 1991. Placer County Code, Chapter 36. Placer County Tree Preservation Ordinance adopted October 29, 1991.
- U. S. Department of Agriculture, Soil Conservation Service. 1980. Soil Survey of Placer County, California. U.S. Department of Agriculture, Soil Conservation Service. Davis, CA.

ATTACHMENT A

Plants and Wildlife Observed On-Site

P.F.E. 14 Property (Placer County, California) Plants Observed On-Site (December 12, 2002)

Typha species

Scientific Name	Common Name	
.Avena fatua	Wild oat	
Bromus hordeaceus	Soft brome	
· Centaurea solstitialis	Yellow star-thistle	
. Convolvulus arvensis	Morning glory	
Cynodon dactylon	Bermuda grass	
- Cyperus eragrostis	Tall flatsedge	
Epilobium brachycarpum .	Panicled willow-herb	
. Erodium botrys	Filaree	
Eucalyptus globulus	Blue gum	
Geranium molle	Hairy geranium	
· Hordeum murinum	Barley	
· Lactuca serriola	Prickly lettuce	
Liquidambar styraciflua	Sweet gum	
· Lolium multiflorum	Ryegr ass	
Ludwigia peploides var peploides	Water primrose	
Lythrum hyssopifolium	Hyssop loosestrife	
Mentha arvensis	Field mint	
Mentha pulegium	Pennyroyal	
-Polygonum persicaria	Lady's thumb	
Polypogon monspeliensis	Annual rabbit-foot grass	
Prunus dulcis	Almond (cultivated)	
Quercus douglasii	Blue oak	
Rumex conglomeratus	Clustered dock	
Rumex crispus	Curly dock	
· Salix gooddingii	Goodding's black willow	
- Taeniatherum caput-medusae	Medusahead grass	
·Trifolium hirtum	Rose clover	

Cattail

P.F.E. 14 Property (Placer County, California) Wildlife Observed On-Site (December 12, 2002)

Common Name	Scientific Name
Birds	
White-tailed kite	Elanus leucurus
Red-shouldered hawk	Buteo lineatus
Ring-necked pheasant	Phasianus colchicus
Rock dove	Columba livia
Mourning dove	Zenaida macroura
Anna's hummingbird	Calypte anna
Nuttall's woodpecker	Picoides nuttallii
Northern flicker	Colaptes auratus
Black phoebe	Sayomis nigricans
Western scrub-jay	Aphelocoma californica
Yellow-billed magpie	Pica nuttalli
American crow	Corvus brachyrhynchos
Oak titmouse	Baeolophus inornatus
Bushtit	Psaltriparus minimus
House wren	Troglodytes aedon
Ruby-crowned kinglet	Regulus calendula
Northern mockingbird	Mimus polyglottas
European starling	Sturnus vulgaris
Yellow-rumped warbler	Dendroica coronata
Spotted towhee	Pipilo maculatus
California towhee	Pipilo crissalis
Song sparrow	Melospiza melodia
Lincoln's sparrow	Melospiza lincolnii
White-crowned sparrow	Zonotrichia leucophrys
Golden-crowned sparrow	Zonotrichia atricapilla
Dark-eyed junco	Junco hyemalis
Red-winged blackbird	Agelaius phoeniceus
Brewer's blackbird	Euphagus cyanocephalus
House finch	Carpodacus mexicanus
Lesser goldfinch	Carduelis psaltria
American goldfinch	Carduelis tristis
Mamr <u>nals</u>	
Black-tailed jackrabbit	Lepus californicus
Princes January	——————————————————————————————————————

ATTACHMENT B

CNDDB Printout for Citrus Heights Quadrangle

Citrus Heights, CA Quadrangle

ELANUS LEUCURUS -NDDB Element Ranks---Other Lists-—Cist Stalus— WHITE-TAILED KITE CDFG Status: Global: G5 Element Code: ABNXC06010 Pederai: None State: S3 State: None

-Habitac Associations General: (MESTING) ROLLING FOOTHILLS/VALLEY MARGINS W/SCATTERED DAKS & RIVER BOTTOMLANDS OR MARSHES NEXT TO DECIDUOUS WOODLAND MICTO: DPEN GRASSLANDS, MEADOWS, OR MARSHES FOR FORAGING CLOSE TO ISOLATED, DENSE-TOPPED TREES FOR NESTING AND PERCHING.

Lat/Long: 38°37'45" / 121°16'58" Township: 09%

Occurrence No. 32 Map Index:24831 —Dates Last Secn— Range: 062 UTM: Zone-10 N4276820 E649475 Occ Rank: Good Element: 1990-05-05 Section: XX Otr XX Precision: SPECIFIC

Origin: Natural/Native occurrence Site: 1990-05-05 Meridian: M Presence: Presumed Extant Symbol Type: POINT

Elevation: 90 ft Radius: 90 meters Trend: Unknown Main Source: JCHNSON, D. 1990 (OBS)

Quad Summary: CITRUS HEIGHTS (3812163/512A) County Summary: SACRAMENTO SNA Summary: Goethe Park

LOCATION: SACRAMENTO SAR, ON THE NORTH SIDE OF THE AMERICAN RIVER, NEAR THE END OF BANKISTER AVENUE, PAIR CAKS. -Comments-

Distribution: Boological: MABITAT CONSISTS OF A DISTURED RIPARIAN AREA CONTAINING GRAVEL DREDGE TAILINGS: VEGETATED BY LIVE DAK AND

COTTONWOOD TREES.

Threat: General: ADULT WAS DESERVED SETTLING DOWN ON THE NEST IN 1990.

Owner/Manager: SAC CCUNTY

Date: 12/13/2002 Commercial Version Report: RFZWIDE

Cicrus Reighes, CA Quairangle

RIPARIA RIPARIA BANK SWALLOW

Element Code: APPAUCADIO

Federal: None

Scate: Threatened

-NDDB Element Ranks-

—Other Dists — CDFG Status:

Global: GS

Stace: 8283

-Rabitat Associations

Coneral: (NESTING) COLONIAL MESTER: MESTS PRIMARILY IN RIPARIAN AND OTHER LOWLAND PARTITATS WEST OF THE DESERT.

Micro: REQUIRES VERTICAL BANKS/CLIFFS WITH FINE-TEXTURED/SANDY SOILS MEAR STREAMS, RIVERS, LAKES, CCEAN TO DIG NESTING HOLE.

Occurrence No. 76

Occ Rank: Good

Map Index:11013

—Dates last Seen— Element: 1989-05-06

Lat/Long: 38°37'49' / 121°17'33" UTM: Zone: 10 N4276939 E648631 Township: 09N Range: 06E

Origin: Natural/Native occurrence

Site: 1999-05-06

Precision: SPECIFIC

Section: XX Otr XX

Presence: Presumed Extant

Trend: Stable

Symbol Type: POLYGON Area: 25.6 ac

Meridian: M Elevation: 100 ft

Main Source: HRMPHREY, J. 1986 (PERS)

Quad Summary: CITRUS MEXCHIS (3812163/512A)

County Summary: SACRAMENTO

SNA Summary: Goethe Park

LOCATION: MORTH SIDE OF THE AMERICAN RIVER, JUST DOWNSTREAM FROM THE SAN JUAN RAPIDS, AMERICAN RIVER PARKWAY,

SACRAMENTO.

Distribution:

Boological: HABITAT CONSISTS OF A VERTICAL BLUFF, CONTAINING 40-50 NEST HOLBS; SEVERAL LARGE COTTONWOUDS RISE UP FROM THE

RIVER'S ZOGE IN CLOSE PROXIMITY TO THE NEST SITE.

Threat: POSSIBLE THREAT FROM HOMANS, AS SITE IS JUST BELOW SOME PRIVACE RESIDENCES.

General: NESTING COLONY OF ZO INDIVIDUALS OBSERVED IN 1988; "ZO ADOLTS OBSERVED FORAGING (ALONG WITH MORTHERN

ROUGH-WINGED SWALLOWS) AND ENTERING MESTING BURROWS ON 13 APRIL 1989; 40 ADULTS CREENVED FORAGING ON 6 MAY

1989.

Owner/Manager: SAC COUNTY

Occurrence No. 197

Map Index:25468

— Bates Last Seen—

Lat/Long- 38°38'15" / 121°15'28"

Township: 03M

Meridian: M

Slevation: 75 fc

Occ Rank: Good

Origin: Natural/Native occurrence

Element: 1990-04-27 Site: 1990-04-27

UTM: Zone-10 N4277783 2651642 Precision: SPECIFIC Ares: 17.2 ac

Symbol Type: POLYGON

Rapge: 97E Section: XX Qtr XX

Presence: Presumed Extant Trend: Unknown

Main Source: MORR, B. 1989 (CBS) Quad Summary: CITRUS HEIGHTS (3812163/912A)

County Summary: SACRAMENTO

SNA Summary:

Location: SOUTH SIDE OF THE AMERICAN RIVER, 0.6 MILE DESTREAM FROM THE SUNRISE BLVD BRIDGE, AMERICAN RIVER PARKWAY, FAIR

OAKS.

—Comment \$-Distribution:

Ecological: HABITAT CONSISTS OF A RECENTLY-ERODED SANDY BLUFF. "12-15 FEET HIGH; NEARBY VEGETATION INCLUDES A BROAD BAND

OF DECIDUOUS RIPARIAN FOREST AND A MARROW BAND OF GRASS/THISTLE.

Threat: MAIN THREAT TO THE SITE IS FROM HUMAN RECREATION.

General: 8 ADULTS OBSERVED ENTERING BURROWS ON 7 MAY 1989: 15-20 BIRDS OBSERVED DURING A FOLLOW-UP VISIT IN JUNE 1989. A MIXED GROUP OF BANK SWALLOWS (15-20 MINIMUM) AND NORTHERN ROUGH-WINGED SWALLOWS WERE OBSERVED ON 27 APRIL

1993.

Owner/Manager: SAC COUNTY

Date: 12/13/2002

Report: RFZWICE

Cocmercial Version

Information dated 07/01/2002

9age 2

Citrus Heights, CA Quadrangle

NORTHERN VOLCANIC MIJD FLOW VERNAL POOL —NDDB Element Agaks———Cthor Lists— —List Stacus——— Clobal: Gl Federal: Mono Element Code: CTT44132CA State: \$1.1 State: None -Habitat Associātions-General: None for this Blement Micro: None for this Element Sat/Long: 30°45'07" / 121°15'12" Township: 10N --Daces Last Seen--Map Index:11782 Occurrence No. 1 UTM: Zone-10 N4290497 E691789 Range: 07E Slement: 1982-XX-XX Occ Rank: Unknown Section: DE Qtr XX Sice: 1982-XX-XX Precision: SPECIFIC Origin: Natural/Native occurrence Meradian: M Symbol Type: 70LYCON Presence: Presumed Extant Elevation: 240 ft Аген: 432.3 ас Trend: Unknown Main Source: WESCO 1982 (LIT) Quad Summary: ROSEVILLE (3812173/528D)*. POLSOM ()812162/5018), CITRUS REIGETS (3812169/513A), ROCKLIN (3812172/527C) Councy Summary: PLACER SNA Summary: Roseville Eastern Vernal Pools Location: BETWEEN DOUGLAS BLVD & MINERS RAVING JUST EAST OF ROSEVILLS. -Camments— Ecological: DIVERSITY OF FOOL TAXA PRESENT INCLUDES DICKELOSTEMMA LACUNA-VERNALIS. MOST OF THIS LARGE AREA IS ON VOLCANIC Distribution: SUSSTRATE. (SD ACRES IN THE NW PORTION OF THE SOUNDED AREA IS LOW TERRACE FORMATION W/HARDPAN VERNAL POOLS. Ceneral: UNABLE TO CONVERT TO PLORISTIC CLASSIFICATION, LACKS SPP. INFO Owner/Manager: UNKNOWN

Date: 12/13/2002

Commercial Version

Report: RF2WIDE Information dated 07/01/2002

Citrus Heaghts, CA Quadrangle

LINDSRIELLA OCCID**ENTA**LIS CALIFORNIA LINDERIELLA Element Code: ICERAC6010

-List Status Federal: None State: None

-NDDB Element Ranks-

—Çcher Dists— CDFG Status:

Global: G2G3

State: S2S3

-Rabitat Associations

General: SSASONAL POOLS IN UNPLOWED GRASSLANDS WITH OLD ALLUVIAL SCILS UNDERLAIN BY HARDFAN OR IN SANDSTONE DEPRESSIONS.

Micro: WATER IN THE POOLS HAS VERY LOW ALKALINITY, CONDUCTIVITY, AND TOS.

Occurrence No. 64

Map Index.32518

-- Oates Last Seed-

:at/Long: 38°41'21" / 121°17'46"

Township: LON

Occ Rank: Unknown

Element: 1995-03-06

UTM: 2one-10 N4283457 E648193

Aange: 06E

Origin: Natural/Native occurrence

Site: 1596:05-27

Precision: SPECIFIC Symbol Type: POINT

Radius: 80 meters

Section: 26 Qtr 5W Meridian: M Elevation: 125 ft

Presence: Presumed Extant

Trend: Unknown

Main Source: GIBSON, J. & T. SKORDAL 1996 (LIT) Quad Summary: CITRUS HEIGHTS (3812163/5.2A)

County Summary: SACRAMENTO

SNA Summary:

Location: STOCK RANCH: 0.8 KM SW OF AUBURN ROAD X SYLVAN ROAD.

-೧೯೮೫ನಕ್ಕೂಗಿದ್ದಿತ-

Distribution: 1595-18 SEASONAL WETLAND/VERNAL POOL MADITATS SURVEYED: POOLS RANGED IN SIZE FROM 65 TO 9,920 SQ. FT:

LINDERIELLA WAS FOUND IN SW-4. 1996 9 SEASONAL METLAND/VERNAL FOOL HABITAT SURVEYED; DINDERIELLA ONLY OBSERVED

Ecological: SEASONAL WETLAND/VERNAL POOL MABITAT IN MON-MATTIVE GRASSLAND, CRIMARDS, CAK WOODLAND AND PORTIONS OF SAN ITIAN

& ARCADE CREEKS W/ ASSOCIATED DRAINAGES; PLANT SPECIES: AVENA SF., BROMUS RIGIDUS, B. MOLLIS, PERENNIAL RYE.

ERCOTUM A VICIA SPF.

Threat: PREDATION BY HYLA TADPOLES; COMPETITION PRESSURE FROM AQUATIC INSECTS; HEAVY VEHICLE USE ON SITE.

General: POCL #SW-4: LINDERIELLA CBSRRVED IN 1995 (1/13, 1/27 & 2/9) AND 1996 (2/7, 2/21 & 3/6); SEVERAL GENERATIONS OF

SHRIMP DESERVED, WITH LACK OF ADULTS IN LAST GENERATION, POSSIBLY DUE TO PREDATION FROM HYLA TADPOLES.

Cwner/Manager: PVT-STOCK RANCH

Date: 12/13/2002 Report: RFZWIDE

Commercial Version

Cieros Reights, CA Quadrangle

DESMOCERUS CALIFORNICUS DIMORPHUS

VALLEY ELGERBERRY LONGHORN BESTLE

Slement Code: IICGL48G21

-List Status-Federal: Threatened -MDD9 Element Ranks-----

—Other Dists-CDFG Status:

Slobal: G3T2

State: S2

-Habitat Associations Seneral: OCCURS ONLY IN THE CENTRAL VALLEY OF CALIFORNIA, IN ASSOCIATION WETH BLUE ELDERBERRY (SAMBUCUS MEXICANAL).

Micho: PREFERS TO LAY EGGS IN ELDERBERRRIES 2-8 INCHES IN DIAMETER: SOME PREFERENCE SHOWN FOR "STRESSED" BLOERBERRIES.

State: None

Cosummence No. 1

Occ Rank: Unknown

--Dates Last Scen-@lemeno: 1987-04-23 Lat/Long: 38°36'55" / 121*18'09*

UTM: Zone-12 N4275244 E647788

Township: 09N Range: D6E

Origin: Natural/Native occurrence Presence: Prosumed Extant

Map Index:11640

Site: 1987-04-23

Precision: SPECIFIC Symbol Type: POLYGON

Section: XX Qtr XX Meridian: M

Trend: Unknown

Main Source: ARNOLD, R. 1985 (PERS)

Area: 1,403.9 ac

Slevation: 60 ft

Quad Summary: CARMICHAEL (3812153/512D)*, FOLSOM (3812162/511B), CITRUS HEIGHTS (3812163/512A)

County Summary: SACRAMENTO SNA Summary: Goethe Park

LOCATION: ALONG AMERICAN RIVER, NIMBUS FLAT AREA OF LAKE NATIONA SOUTH TO DOWNSTREAM END OF GOETHE PARK. Distribution: FOUND ALONG THE AMERICAN RIVER PARKWAY TO THE LOWER SOUTHFAST SHORE OF LAKE NATIONA; INCLUDES CRITICAL AND

SSSENTIAL HABITAT AREAS.

Ecological: LARVAE ARE STEM AND ROOT BORERS OF ELDERBERRY: EXIT HOLES ARE ROUND. BUPRESTID LARVAE ALSO BORE INTO

ELDSRBERRY; EXIT HOLES ARE OVAL. ADULTS FEED ON FOLIAGE AND FLOWERS.

Threat: POPULATIONS OF VECB ARE REDUCED AS ELDERBERRY GROVES ARE REDUCED IN MIMBER.

General: 1987 SURVEY OF NIMBUS FLATS FOUND BOTH OLD AND NEW EXIT BOLES.

Owner/Manager: SAC COUNTY, DPR

Date: 12/13/2002 Report: RF2WIDE

Commercial Version

Citrus Beights, CA Gradrangle

SAGITTARIA SANFORDII -Cther Lists--NDDB Bloment Ranks-SANFORD'S ARROWHEAD —List Status-CNPS List: 1B Digment Code: PMALID4CQD Pederal: None Global: G3 R-E-D Code: 2-2-3 State: None State: 53.2 -Mabitat Associationo General: MARSHES AND SWAMPS. Micro: IN STANDING OR SLOW-MOVING FRESHWATER FONDS, MARSHES, AND DITCHES. 0-610M. Township: 10N Lat/Long: 38°42'58" / 121°18'55" -- Dames Last Seen-Occurrence No. 46 Map Index:30124 Range: 068 Blement: 1997-06-18 UTM: Zone-10 N4286415 E646475 Occ Rank: Fair Section: 15 Otr SW Site: 1997-06-18 Precision: SPECIFIC Origin: Natural/Native occurrence Meridian: M Symbol Type: POLYGON Presence: Presumed Extant Slevation: 150 ft Area: 16.9 ac Trend: Onknown Main Source: NORTON, X. 1993 (MAP) Quad Summary: CITRUS HEIGHTS [3812163/512A] County Summary: SACRAMENTO SNA Summary: LOCATION: EAST SIDE OF ROSEVICUE ROAD ABOUT 0.9 MILE FROM ANTELOPS ROAD, ANTELOPE. Distribution: Two Colonies Mapped by Norton in 1993 in DRAINAGES SETWEEN ROSEVILLE ROAD AND VILLAVIEW DRIVE AND NORTH OF CUTLOOK DRIVE, ONLY THE SOUTH COLONY REMAINING IN 1997. Ecological: UNLINED +/- NATURAL CHANNEL WITH SALIX AND TYPHA. SAGITTARIA DOMINATES MUCH OF THIS SHORT WATERCOURSE. Threat: SITE SURROUNDED BY NEW DEVELOPMENT. NORTH COLONY OBLITERATED BY EARTHMOVING EQUIPMENT.

General: 1000'S OF PLANTS OBSERVED IN 1997. THIS SMALL SECTION OF MABITAT APPEARS TO BE SET ASIDE BY THE CURRENT DEVELOPERS. CHANNEL IS MARKED AND SQUIPEMENT APPEARS TO AVOID IMPACTING AREA. Owner/Manager: UNKNOWN Township: 10X Lat/Long: 36"43'20" / 121°18'35" —Dates Laut Scen— Oppurrence No. 49 Map Index:37753 Range: 065 UTM: Zone-10 N4287039 2646946 Element: 1997-06-18 Ope Rank: Good Section: 15 Oir MW Precision: SPECIFIC Site: 1997-06-19 Origin: Nacural/Native occurrence Mer;dian: M Symbol Type: FOINT Presence: Presumed Extant Elevation: 150 ft Radius: 80 meters Trend: Onknown Main Source: NOSAL, T. ET AL 1997 (CB5) Quad Summary: CITRUS HRIGHTS (3812163/512A) County Summary: PLACER, SACRAMENTO SNA Summary: Location: ROSEVILLE ROAD AT WHYTE AVE, JUST SOUTH OF SAC/PLA COUNTY LINE. ANTELOPS. CommedE8-Distribution: WEST OF ROSEVILLE ROAD IN CHANNEL RETWERN ROAD AND RR TRACKS. NEAR CENTER OF SECTION. Scological: PRESHWATER MASH WITH TYPMA. General: ABOUT 1000 PLANTS OBSERVED IN 1997. MOST PLANTS OCCUR WITHIN TWO 10X10 OPENINGS WITHIN THICK TYPHA STAND. SITE APPEARS TO BE UNMAINTAINED CHANNEL, FEW VISITORS. NO OBVIOUS TEREATS. Owner/Manager: UNKNOWN Lat/Long: 38°42'26" / 121°15'40" Township: 10N Mag Index: 37757 -Dates Last Sce⇒-Occurrence No. 50 Range: 06E UTM: 20ng-10 N4285512 Z651208 Element: 1994-07-21 Occ Rank: Excellent Section: 24 Otr SE Site: 1994-07-21 Precision: SPECIFIC Origin: Natural/Native occurrence Meridian: M Symbol Type: POLYGON Presence: Presumed Extant ±levation: 190 ≤c Area: 21.9 ac Trend: Unknown Main Source: WYMER, N. 1994 (OBS) Quad Summary: CITRUS MEIGHTS [3812]63/512A) County Summary: SACRAMENTO SNA Summary: LOCATION: CITRUS HEIGHTS; ALONG CREEK JUST EAST OF FAIR CAKE BLVD BETWEEN CAK BLVD AND CLD AUBURN ROAD. Distribution: MAPPED BETWEEN VILLA CAKS AND OLD AUBURN ROAD ALDEG SURRISE CREEK. Scological: DRAINAGE CHANNEL WITH SLOW-MOVING WATER. ASSOCIATED WITH ECHINOCHLOA CRUSGALLI, PGLYGONUM LAPATHIFOLIUM, PASPALUM DILATUM, CYPERUS ERAGROSTIS. AND SORGHUM HALAPENSE. Threat: HSR91CIDE SPRAYING AND CHANNEL MAINTENANCE. General: NUMEROUS PLANTS SEEN IN JUNE 1994; CHANNEL CLEARED IN EARLY JULY 1994; PLANTS RECOLONIZED/NUMEROUS IN LATE JULY 1994. Owner/Manager: SAC COUNTY PUBLIC WORKS

Date: 12/13/2002 Report: RF2WIDE Commercial Version

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ENVIRONMENTAL CONSULTING - PLANNING - LANDSCAPE ARCHITECTURE

MEMORANDUM

January 18, 2005

To:

COMPANY:

FROM: Linda Rivard

SUBJECT: Summary of Almond Ranch Biological Survey (1-12-05)

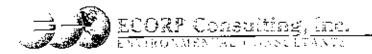
The purpose of this memorandum is to discuss the results of a biological survey that was conducted on the Almond Ranch portion of the Whisper Creek project site that was not previously covered by the biological surveys conducted by ECORP, Inc. Although a wetland delineation and valley elderberry longhorn beetle habitat survey has been completed for this parcel, no biological assessment had been conducted. Foothill Associates biologists conducted a biological survey of the Almond Ranch parcel on January 12, 2005 to ensure complete coverage of the project site. The use of this information was used to supplement existing biological information in preparation of an EIR for the project.

The survey was conducted by walking the site and recording habitat conditions and wildlife observations. Binoculars were used to aid in wildlife identification and nest locations. The site is vacant of any structures, but a debris pile is located in the southwestern portion of the site. A majority of the debris pile consisted of discarded orange construction fencing which appeared relatively new, along with miscellaneous metal and other trash pieces. The site consists of a grove of eucalyptus (Eucalyptus sp.) and the non-native Australian pine (Casaurina equisetifolia) in the southwestern portion of the site, but is largely composed of annual grassland habitat. No native tree species were identified. The area that was previously mapped as seasonal wetland habitat in the wetland defineation (ECORP, 2003) was inundated due to the recent heavy rainfall occurrences in the area. Several dirt mounds that have been overgrown with grasses were observed in the northeast and southwest corners of the property. Wildlife observed on-site during the site visit were limited to bird species and include American robin (Turdus migratorius), mourning dove (Zenaidura macroura), yellow-billed magpie (Pica nuttalli), and northern flicker (Colaptes auratus). A turkey vulture (Cathartes aura) was observed foraging within the area as well. An average sized nest was located in a eucalyptus tree located near the southwestern border of the site. A yellow-billed magpie and northern flicker were observed within the vicinity of the nest, but no birds were observed actively using the nest. No specialstatus animal or plant species were observed.

The on-site trees and annual grasslands provide potentially suitable nesting and foraging habitat for regionally occurring special-status bird species including white tailed kite (Elanus leucurus), northern harrier (Circus cyaneus), Swainson's hawk (Buteo swainsoni), burrowing owl (Athene cunicularia), and loggerhead shrike (Lanius ludovicianus). No other habitat for special-status species was observed on-site. Recommendations include conducting a pre-construction survey by a qualified biologist for nesting raptors and other birds protected by the Migratory Bird Treaty

Act no more than 30 days prior to commencing grading or earthmoving activities on the project site. If nesting birds are found, the California Department of Fish and Game or Placer County will determine the appropriate measures to take, avoid, or mitigate for adverse impacts to these nesting birds. Additionally, the conversion of Swainson's hawk foraging habitat may be considered a significant impact that would require mitigation, since active Swainson's hawk nests are recorded on the California Natural Diversity Database (CNDDB) within five miles of the project site (California Department of Fish and Game, CNDDB dated August 2, 2004).

TENSONT LEDITOR SOPRUMBER



May 9, 2003

Mr. Bill Brown Towne Development of Sacramento, Inc. 775 Sunrise Avenue, Suite 270 Roseville, CA 95661

RE: Whispering Creek, Placer County, California — Rare Plant Survey

Dear Mr. Brown:

I conducted a rare plant survey on May 7, 2003 for the Whispering Creek project site located in western Placer County, California. The Whispering Creek property is a 36-acre undeveloped parcel within unincorporated western Placer County, west of Cook-Ricio Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes that front Meandering Way, on the west by undeveloped lands and rural residences, on the north by PFE Road, and on the east by Oly Lane and rural residences. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey) (Figure 1).

The survey was conducted during the optimum blooming period for Sanford's arrowhead, which is the only potentially occurring special-status plant on-site. The purpose of the surveys was to document the presence of special-status plant species with federal and/or state listing (under the federal Endangered Species Act or California Endangered Species Act respectively), and plants listed by the California Native Plant Society (CNPS) that meet the definition of a rare, threatened or endangered plant. California listed species are subject to the Native Plant Protection Act (Section 1901, Chapter 10 of the California Fish and Game Code) and the California Endangered Species Act (Section 2062 and 2067 of the California Fish and Game Code). These plant species are also subject to full consideration under the California Environmental Quality Act.

SITE DESCRIPTION

Whispering Creek is currently comprised of non-native annual grassland, willow scrub riparian habitat, and ephemeral drainages and swales. The site topography is gently rolling, and is situated at an elevation of approximately 120

2260 Douglas Blvd., Suite 160 Roseville, California 95661 Tele: (916) 782-9100

Tele: (916) 782-9100 Pax: (916) 782-9134

E-mail:ecorp@ecorpconsulting.com Web: www.ecorpconsulting.com feet above mean sea level. The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*).

The riparian willow scrub vegetation community is present in association with a seasonal wetland drainage that receives runoff from the adjacent housing subdivision to the south. The riparian vegetation is comprised primarily of willow species (Salix spp.) and Fremont cottonwood (Populus fremontii), with scattered Himalaya blackberry (Rubus discolor) and Valley oak (Quercus lobata). Understory vegetation is made up of a mixture of upland and wetland plants such as bull thistle (Cirsium vulgare), South American vervain (Verbena bonariensis), dallisgrass (Paspalum dilatatum), annual rabbit-foot grass (Polypogon monspeliensis), and ryegrass.

One soil unit has been mapped for the entire site, (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes (USDA, NRCS 1980).

METHODS

A list of special-status plants with potential to occur on the project site was generated using the *California Department of Fish and Game Natural Diversity Data Base Special Status Plants List* (California Department of Fish and Game 2002) and the *Inventory of Rare and Endangered Vascular Plants of California, Sixth Edition* (California Native Plant Society 2001). Species with potential to occur include Sanford's arrowhead (*Sagittaria sanfordii*), a federal species of concern and CNPS List 1B species. Plant species found during the survey were identified using *The Jepson Manual, Higher Plants of California* (Hickman, 1993). The survey was conducted by walking transects through the appropriate habitat features depicted on the wetland delineation map (Figure 2).

RESULTS

During the surveys, a complete list of species encountered was generated and is presented in Table 1. No special-status plant species were observed on-site during the surveys. The ephemeral drainage that flows from the southeast to the northwest corner of the site represents the area targeted for the potentially occurring Sanford's arrowhead. During the survey, the drainage was partially inundated due to runoff into a storm drain outfall resulting from recent rain events. Plants observed within the drainage include common hydrophytes such

as tall flatsedge (*Cyperus eragrostis*), lady's thumb (*Polygonum persicaria*), dotted smartweed (*P. punctatum*), broad-leaf cattail (*Typha latifolia*), and water speedwell (*Veronica anagallis-aquatica*).

CONCLUSION

In summary, a rare plant survey targeting Sanford's arrowhead conducted during May 2003 identified no special-status plants on-site.

If you have any questions regarding the findings of our special status plant species investigation, please call me at 916-782-9100.

Sincerely,

Keith C. Kwan Senior Biologist

Enclosures

cc: Mr. Jack Coulter / County Builder, LLC

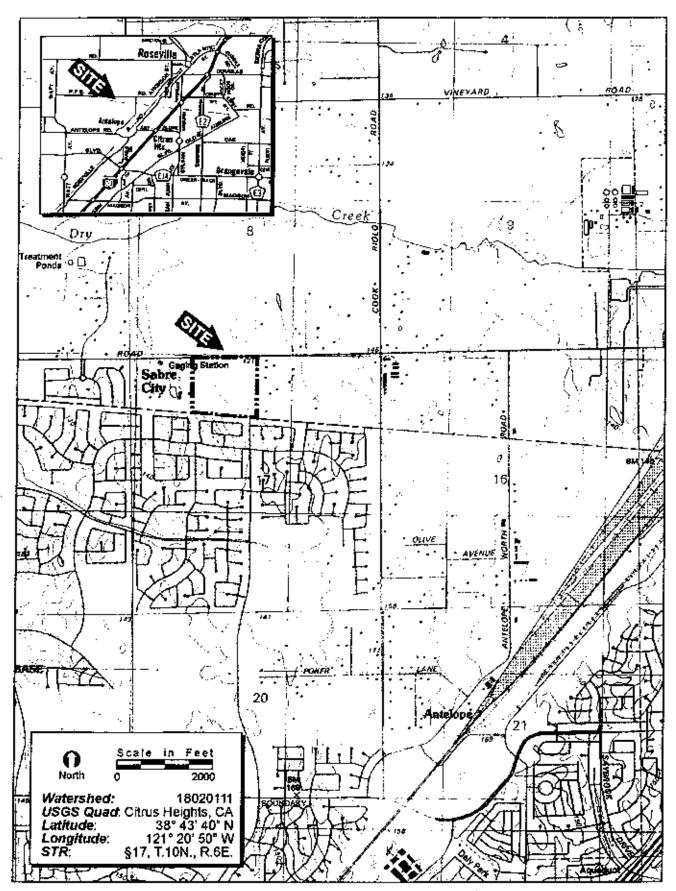
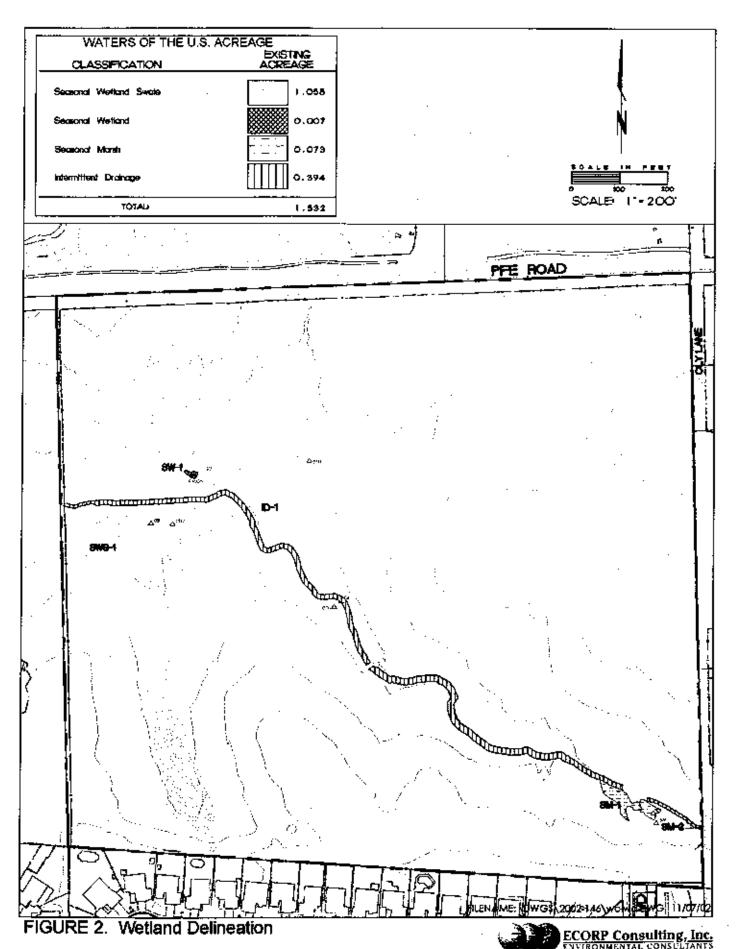


FIGURE 1. Project Site and Vicinity Map



2002-146 Whitspering Creak

Table 1. Plants Observed On-Site (May 7, 2003)

Scientific Name	Common Name	Scientific Name	Common Name
Achyrachaena mollis	Blowwives	Trifolium hirtum	Rose clover
Aira caryophyllea	Hairgrass	·Triphysaria eriantha	Butter and eggs
Avena fatua	Wild oat	-Typha latifolia	Broad-leaf cattail
Briza minor	Little quaking grass	 Verbena bonariensis 	South American vervain
Bromus diandrus	Ripgut brome	Veronica anagallis-aquatica	Water speedwell
Bromus hordeaceus	Soft brome	Vicia villosa	Winter vetch
Çastilleja attenuata	Valley tassels	Vulpia bromoides	Vulpia
Centaurea solstitialis	Yellow star thistle		
Çerəstium glomeratum	Mouse-ear chickweed		
Chamomilla suaveolens	Pineapple weed		
Cirsium vulgare	Bull thistle		
Cortaderia species	Pampas grass		
Cyperus eragrostis	Tall flatsedge		
Downingia ornatissima	Solano downingia		
Eleocharis macrostachya	Creeping spikerush		
Epilobium brachycarpum	Panicled willow-herb		
Epilobium ciliatum	Hairy willow-herb		
Erodium botrys	Filaree		
Eucalyptus globulus	Blue gum		
Ficus carica	Fig		
Galium species	Bedstraw		
Holocarpha virgata	Sticky tarweed		
Hordeum marinum	Mediterranean barley		
Hordeum murinum	Barley		
Hypochaeris glabra	Smooth cat's-ear		
Juncus bufonius	Toad rush		
Lactuca serriola	Prickly lettuce		
Leontodon taraxacoides	Hairy hawkbit		
Limnanthes alba	White meadowfoam		
Lolium multiflorum	Ryegrass		
Medicago polymorpha	Bur clover		
Paspalum dilatatum	Dallisgrass		
Picris echioides	Bristly extengue		
Polygonum persicaria	Lady's thumb		
Polygonum punctatum	Dotted smartweed		
Polypagon monspeliensis	Annual rabbit-foot grass		
Populus fremontii	Fremont's cottonwood		
Ouercus lobata	Valley oak		
Ranunculus bonariensis	Carter's buttercup		
Ranunculus muricatus	Spiny-fruit buttercup		
Rumex conglomeratus	Clustered dock		
Salix babylonica	Weeping willow		
salix vadytorica Salix exigua	Sandbar willow		•
Salix exigua Salix gooddingii	Goodding's black willow		
saux gooddingii Salix lasiolepis	Arroyo willow		
saux iasioiepis Sonchus asper	Prickly sowthistle		
sonunus asper Taeniatherum caput-medusae			
	richusenceu di ess		

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VALLEY ELDERBERRY LONGHORN BEETLE HABITAT SURVEY FOR

ALMOND RANCH

PLACER COUNTY, CALIFORNIA

September 18, 2003



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ALMOND RANCH

VALLEY ELDERBERRY LONGHORN BEETLE HABITAT SURVEY

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Figure 1 – Project Site and Vicinity Map

1.0 INTRODUCTION

On behalf of the County Builder, LLC, ECORP Consulting, Inc., has conducted a Vailey elderberry longhorn beetle (*Desmocerus californicus dimorphus*) habitat survey at the 26-acre Almond Ranch project located in Placer County, California.

The subject property is located west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes fronting Elgin Hills Way, on the east and west by undeveloped lands and rural residences, and on the north by PFE Road. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U.S. Department of the Interior, Geological Survey 1992) (Figure 1).

2.0 VALLEY ELDERBERRY LONGHORN BEETLE - BACKGROUND

The Valley elderberry longhorn beetle (Family: Cerambycidae) is associated with live elderberry (*Sambucus* sp.) shrubs, its exclusive host plant. Life history aspects of the beetle are assumed to follow a sequence of events similar to that of related taxa (USFWS 1984). Adult Valley elderberry longhorn beetles, which are generally short-lived, typically emerge from elderberry shrubs in May, but have been encountered during March through June. After mating, females deposit eggs in crevices on the bark of living elderberry plants. Upon hatching, the larvae bore into the pith of the elderberry, where they remain for one to two years. Following pupation, adult beetles emerge from the elderberry through created emergence holes, which are circular or somewhat oval in shape. Emergence holes are indicative of habitat use, although all elderberry shrubs within the range of the species, whether or not the shrubs reveal emergence holes, represent potentially occupied habitat.

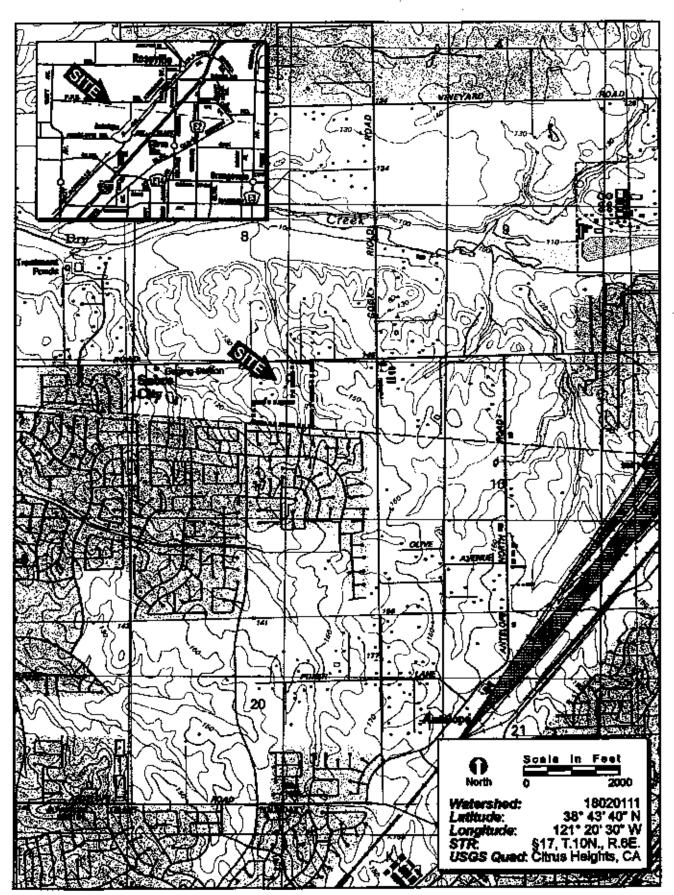


FIGURE 1. Project Site and Vicinity



In 1978, the U.S. Fish and Wildlife Service proposed that the Valley elderberry longhorn beetle be listed as a "threatened" species under the federal Endangered Species Act of 1973, as amended. In 1980, it was officially listed as a threatened species (Federal Register 45: 52803-52807).

Elderberry shrubs are deciduous plants, dropping all leaves in fall and winter. Due to their lack of leaves during fall and winter months, dormant elderberry shrubs are not as conspicuous as during spring and summer. Elderberry shrubs are typically readily identifiable during their dormant stage by their unique structure and appearance (i.e. multi-stem shrub habit, branching structure, and leaf scars), and during their leafy phase by their bright green, pinnately compound leaves.

3.0 SURVEY METHODS

On September 17, 2003, a survey for the Valley elderberry longhorn beetle (VELB) and its obligate habitat, the elderberry shrub (*Sambucus mexicanus*), was conducted. The field survey was conducted in order to identify, map, and catalogue all potential Valley elderberry longhorn beetle habitat (i.e., elderberry shrubs) present. ECORP biologist, Reed Hentze, surveyed the entire property in search of elderberry shrubs and trees. All accessible areas of the site were walked. Meandering transects through areas of dense vegetation were walked in an attempt to identify potentially occurring shrubs.

4.0 SURVEY RESULTS

4.1 General Habitat Characterization

The Almond Ranch site is comprised of abandoned orchard to the east, and a horse pasture to the west along with two rural residences and associated outbuildings. The habitat on-site consists of non-native annual grassland. The site has gently rolling topography, and is situated

at an elevation of approximately 140 feet above mean sea level. The orchard, which does not appear to be in active production or harvest, is made up of primarily almond (*Prunus dulcis*) trees. The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*). Other scattered trees on-site include blue gum (*Eucalyptus globulus*) and blue oak (*Quercus douglasii*).

4.2 Elderberry Survey

No elderberry shrubs were identified during the Valley elderberry longhorn beetle habitat survey conducted at the Almond Ranch project site.

5.0 REFERENCES

- Barr, C.B. 1991. *The Distribution, Habitat, and Status of the Valley Elderberry Longhorn Beetle Desmocerus Californicus Dimorphus*. U.S. Fish and Wildlife Service; Sacramento, California.
- USFWS. 1980. Listing the Valley Elderberry Longhorn Beetle as a Threatened Species With Critical Habitat. Federal Register 45:52803-52807.
- USFWS. 1984. Recovery Plan for the Valley Elderberry Longhorn Beetle. U.S. Fish and Wildlife Service, Endangered Species Program; Portland, Oregon.
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WETLAND DELINEATION

FOR

WHISPERING CREEK

PLACER COUNTY, CALIFORNIA

November 27, 2002

Prepared for:

TOWNE REALTY, INC.



WHISPERING CREEK

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WETLAND DELINEATION

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APPENDICES

Appendix A – Wetland Delineation Data Sheets Appendix B – Plant List

Appendix C - Wetland Delineation

INTRODUCTION

On behalf of Towne Realty, Inc., ECORP Consulting, Inc. has conducted a wetland delineation of the proposed Whispering Creek development site located in unincorporated western Placer County, California. Whispering Creek is a 36-acre undeveloped parcel west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes fronting Meandering Way, on the west by undeveloped lands and rural residences, on the north by PFE Road, and on the east by Oly Lane and rural residences. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey 1992) (Figure 1).

APPLICANT:

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KOSEVIIIE, CAITOTTIIA 9

Phone: (916) 782-9100 Fax: (916) 782-9134

SURVEY METHODOLOGY

The wetland delineation was conducted on October 24, 2002, during which time, biologist Keith Kwan walked and inspected the entire site to determine the extent of potential waters of the U.S. within the project site. This wetland delineation was conducted in accordance with the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987). Wetland boundaries and a number of three parameter data points were mapped and their Global Positioning System (GPS) coordinates were logged and recorded with a Trimble PROXR unit. A black and white aerial photograph (1"=100,' flown on April 4, 2000) was utilized to assist with mapping and ground-truthing. A *Munsell Soil Color Chart* (Kollmorgen Instruments Corp. 1990) was used to identify hydric soils in the field, and the *Jepson Manual* (Hickman 1994) was used for plant identification.

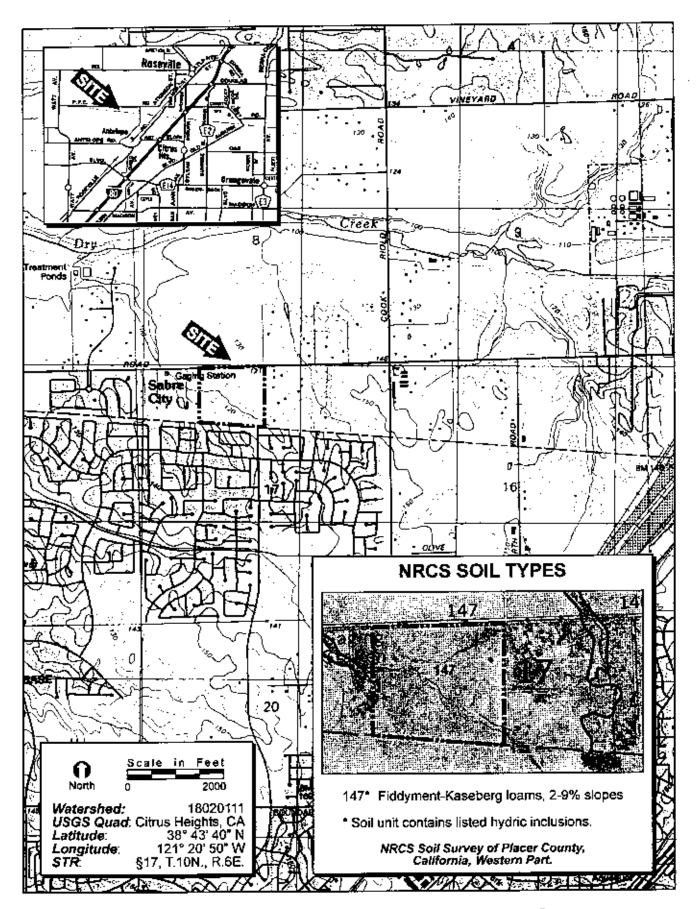


FIGURE 1. Project Site and Vicinity Map

The survey was conducted at the end of the growing season and many plant species had flowered, and most annual species had already declined.

EXISTING SITE CONDITIONS

The Whispering Creek site is currently comprised of non-native annual grassland, willow scrub riparian habitat, and ephemeral drainages and swales. The site topography is gently rolling, and is situated at an elevation of approximately 120 feet above mean sea level. The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*).

The riparian willow scrub vegetation community is present in association with a seasonal wetland drainage that receives runoff from the adjacent housing subdivision to the south. The riparian vegetation is comprised primarily of willow species (*Salix* spp.) and Fremont cottonwood (*Populus fremontii*), with scattered Himalaya blackberry (*Rubus discolor*) and Valley oak (*Quercus lobata*). Understory vegetation is made up of a mixture of upland and wetland plants such as bull thistle (*Cirsium vulgare*), South American vervain (*Verbena bonariensis*), dallisgrass (*Paspalum dilatatum*), annual rabbit-foot grass (*Polypogon monspeliensis*), and ryegrass.

One soil unit has been mapped for the entire site, (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes (U.S. Department of Agriculture, Soil Conservation Service 1980).

WATERS OF THE U.S.

Potentially jurisdictional waters of the U. S. mapped total 1.532 acres and include wetlands (1.138 acres) and other waters. Wetlands consist of seasonal wetland (0.007 acre), wetland swale (1.058 acres), and seasonal marsh (0.073 acre), and other waters are comprised of an intermittent drainage (0.394 acre). Three parameter wetland delineation data sheets have

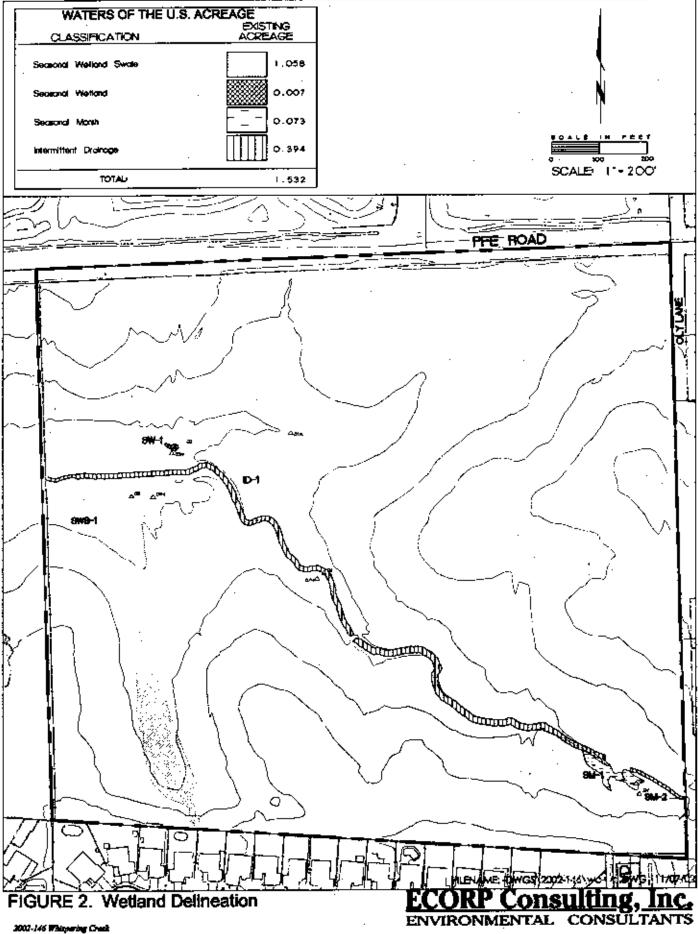
been included as Appendix A, and a list of plant species observed at the data collection points is included as Appendix B. The wetland delineation is presented as Figure 2 and in Appendix C.

Wetlands

Seasonal wetlands are ephemerally wet areas where runoff accumulates within low-lying areas and/or adjacent to watercourses. These may occur as basins or linear features. Linear features are typically referred to as seasonal wetland swales. The vegetative composition of the seasonal wetland on-site is comprised of non-native wetland generalist plants as well as native annual species. These include Bermuda grass (*Cynodon dactylon*), tall flatsedge (*Cyperus eragrostis*), ryegrass, hyssop loosestrife (*Lythrum hyssopifolium*), and slender popcorn flower (*Plagiobothrys stipitatus*).

The wetland swale is comprised of riparian woody vegetation and an understory of herbaceous hydrophytic plants. The wetland may be characterized as seasonal, but is largely dependent upon runoff from the subdivision to the north of the site. Consequently, during periods of excessive runoff from landscape irrigation, this wetland swale becomes saturated and inundated in the lower lying areas. This may occur during any season through the year. The riparian canopy is comprised of Goodding's black willow (*Salix gooddingii*) and Fremont cottonwood. Herbaceous vegetation within the swale includes tall flatsedge, clustered dock (*Rumex conglomeratus*), curly dock (*R. crispus*), and cattail (*Typha* spp.).

The seasonal marsh within the eastern portion of the site is situated within and adjacent to a naturally occurring topographic swale and may also receive additional intermittent runoff from Don Julio Boulevard, which is located immediately to the south. Plants within the marsh are typical seasonal wetland and moist soil species such as annual rabbit-foot grass (*Polypogon monspeliensis*), Bermuda grass, tall flatsedge, soft rush (*Juncus effusus*), hairy willow-herb (*Epilobium ciliatum*), and prostrate knotweed (*Polygonum arenastrum*).



Other Waters

An intermittent drainage provides the primary drainage through the entire site. The drainage ranges from 6 to 15 feet wide (top of bank to top of bank) and approximately 1 to 4 feet deep (top of bank to bed). The flows are intermittent through the wet season and augmented by urban runoff and possibly ground water during the drier portions of the year. Vegetation is absent in reaches where flows are too high and suitable soil does not exist, while vegetative cover is persistent in reaches where sediment accumulation allows for growth within a relative unstable environment. The plant species observed within the drainage include typical wetland and moist soil species such as broad-leaf cattail (*Typha latifolia*), lady's thumb (*Polygonum persicaria*), annual rabbit-foot grass (*Polypogon monspeliensis*), and hairy willow-herb (*Epilobium ciliatum*).

INTERSTATE OR FOREIGN COMMERCE

The wetlands mapped on-site are within the Dry Creek watershed. Dry Creek is located several hundred yards to the north of the site. Due to the rolling topography of the site, overland flows of rainwater accumulate within the on-site wetland features, and during the wet season, water levels increase and eventually spill into larger drainages on-site and off-site. These flows ultimately reach Dry Creek. Dry Creek eventually flows into the Sacramento River, which is navigable water. Thus, these waters should be considered tributary and/or adjacent to a documented Water of a U.S. and would therefore be subject to interstate and/or foreign commerce.

CONCLUSION

Potentially jurisdictional waters of the U. S. mapped on-site total 1.532 acres and include wetlands (1.138 acres) and other waters. Wetlands consist of seasonal wetland (0.007 acre), wetland swale (1.058 acres), and seasonal marsh (0.073 acre), and other waters are comprised of an intermittent drainage (0.394 acre). Any impact to these features would likely require permitting pursuant to Section 404 and 401 of the federal Clean Water Act.

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- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U. S. Army Engineer Waterways Experiment Station. Vicksburg, Mississippi.
- Hickman, James C. *ed.* 1993. The Jepson Manual, Higher Plants of California, University of California Press, Berkeley, California.
- Kollmorgen Instruments Corp. 1990. Munsell Soil Color Charts. MacBeth Division of Kollmorgen Instruments Corporation. Baltimore, Maryland.
- U.S. Department of Agriculture, Soil Conservation Service. 1980. Soil Survey of Placer County Western Part, California. U.S. Department of Agriculture, Soil Conservation Service. Davis, California.
- U.S. Department of the Interior, Geological Survey. 1992. "Citrus Heights, California" 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.

LIST OF APPENDICES

Appendix A. Wetland Delineation Data Sheets

Appendix B. Plant List

Appendix C. Wetland Delineation

APPENDIX A

Wetland Delineation Data Sheets

ECORP Consulting, Inc. ROUTINE WETLAND DELINEATION ENVIRONMENTAL CONSULTANTS Project/Site: Whispering Creek Date: 10/24/12 Sample Point: Applicant/Owner: Towne Development Field investigator(s): K. Kwan County: Place State: CA Plant Community: Annual Gase Grad Do normal environmental conditions exist site? Yes No 🖸 If no, explain: Atypical Situation? Yes 🗆 No 🔀 Explain: _____ Is this a potential Problem Area? Yes No D Explain: extense (sml a-HYDROPHYTIC VEGETATION? Yes □ No 🗷 VEGETATION Stratum Rel. % Cover Dominant Species Ind Status Stratum Rel. % Cover Dominant Species Ind. Status 1) Lot mul _ ____ 8) _____ Comments: WEILAND HYDROLOGY? Yes 🗆 No 🖭 - HYDROLOGY Recorded Data: Yes O No XII yes, _____ Depth of surface water: ______ (in.) Depth to free water in pit: ______ (in.) Depth to saturated soil: ______ (in.) Primary Indicators: 🖸 Inundated 🗅 Saturated in Upper 12 in. 🗅 Water Marks 🗅 Drift Lines 🗅 Sediment Deposits 🗅 Drainage Patterns in Wedlands Secondary Indicators (2 or more required): 🗷 Oxidized Root Changels in Upper 12 in. 🔾 Water-stained Leaves 🗆 Local Soil Survey Data 🖵 FAC-Neutral Test 🖰 Other ____ Comments: very shillow swellow HYDRIC SOILS? Yes □ No-A SOILS " Series/Phase: 147 Fildyment-Karehers Lozans, 2 to 9 parent stopes Drainage Class: well digined Taxonomy (Subgroup): Fire-Lorung, maxed, thermic Typic Doriver 1 fs Confirm Map Type: Yes | No | 🗆 Histosol 🗅 Histo Epipedon 🗇 Sufidic Odor 🗅 Aquic Moisture Regime 🗅 Reducing Conditions 🗅 Gleyed/Low Chroma Colors 🗅 Concretions 🗆 High Organic Content in Surface Layer in Sandy Soils 🗀 Organic Streaking in Sandy Soils 🚨 Listed on Hydric Soils List 🗀 Other 🔛 Inclusions [Series/Phase]: Alama inclusions in depression _____ On Hydric Soils List: Yes A No C Monte (Abund/Contrast/Size) Texture, Concretions, Structure Mortle Color Depth (in.) Horizon. 10424/2 0-6

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Rationale:

General comments:

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State: CA	Plant Community: Annual Consideral
County: 1 CACA	Section/Township/Range: T. LONDORTH, R. GECS+ Sec. 17
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Percentage of dominant species that are OBL, PACW, and	of PAL Joseph
Comments:	
YDROLOGY	WETLAND HYDROLOGY? Yes A No 🗆
Recorded Data: Yes 🗆 No 🗷 If yes,	
Death of surface water: (in.) Death to free	water in pit: (in.) Depth to saturated soil: (in.)
Primary Indicators: Implementated Saturated in Upper 12	in. 🗆 Water Marks 🗆 Drift Lines 🗷 Sediment Deposits 🗆 Drainage Patterns in Wedan
Secondary Indicators /2 or more required):	
☑ Oxidized Root Channels in Upper 12 in. ☐ Water-stained	Leaves O Local Soil Survey Data O FAC-Neutral Test & Other algalut
Comments:	
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Swimphon 147 Filder + t-Karebers 67	ams, 2 to 7 parcent stopes Drainage Class: well drained
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Comments:	
DECISION *	WETLAND / WATERS DETERMINATION? Yes Z No D
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General comments:	

Wetland Type: ____ 544,544

HERBACEOUS COVER / DOMINANCE WORK SHEET

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Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dogninants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dogninants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dogninants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dogninants</u>
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Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dogninants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
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Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants

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Applicant/Owner: To		State:	Plant Cortu	munity:	Anun	I Consta	-1
Quad(s):	Heights (A	Section/To	waship/Rang	e: <u>۲.</u> ۱۰۰۸	sorth, R. CEm.	Sec. 17-
Do normal environments	ıl conditions exist s	ite? Yes Z No 🗆 If:	no, explain:		<u></u>		
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HYDROLOGY				· · · · · · · · · · · · · · · · · · ·	WETL	AND HYDROLOG	Y? Yes □ No 🕸
Recorded Data: Yes □ I	No Differen						
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Primary Indicators:	\m.	sted in Linner 12 in. 🗆	Water Marks	Drift Lines	s 🗆 Sediment	Deposits 🖫 Drainas	ge Patterns in Wetlands
Secondary Indicators (2							
□ Oxidized Root Chann	els in Upper 12 in.	. Water-stained Leav	ves 🗆 Local So	ii Survey Da	ta 🗆 FAC-Net	utral Test 🖵 Other _	
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Series/Phase: 147 F	مكارة لمستويد المراث	sechene Lorens	249	persont	slopes :	Drainage Class: 🔟	ell drained
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☐ Histosol ☐ Histo Ep	inadas 🗆 Sufficie	Odos 🖸 Aquic Moist	ure Regime 🗀	Reducing Co	nditions 🗆 C	Reyed/Low Chroma	Colors 🛘 Concretions
☐ High Organic Content	ipedon 🗀 Sundic	- Sandy Soils D Ore:	mic Streakine i	n Sandy Soil	s 🗆 Listed or	n Hydric Soils List	□ Other
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	<u>-</u>						
							<u> </u>
Comments:					<u> </u>		
DECISION •				WETLAN	O/WATERS	DETERMINATIO	N? Yes No No.
Rationale:							
General comments: A	dinient up	land area	to pl.	۵ کـ		<u> </u>	
			Weils	ınd Type: _			

HERBACEOUS COVER / DOMINANCE WORK SHE	Ε
---------------------------------------	---

Species Observed Bro die Tax cap to I mul Gre set Bro hor Ane fat Holvir Vic spe	Actual Cover 30 40 15 5 5 5 5 175	Rejative Cover 2 (COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
total sum (∑) =		100%	1	
Species (Descending Order)	Relative Cover	<u>Çumulative Cover</u>	Indicator Status	Dominants
				
				· ·
			 .	
				
		<u> </u>		
				

ROUTINE WETLAND DELINEATION

Copyright @2002 ECORP Consulting, Inc.

ENVIRONMENTAL CONSULTANTS	
Project/Site: Whis pering Creeks	Date: /0/24/02 Sample Point: 04
Company Places CA	Plant Community:
anadel Citros Heights, CA	Section/Township/Range: 1.
was an arrive size? No D. If no	evoluin'
Atypical Simarion? Yes D No. Explain:	
Is this a potential Problem Area? Yes 🗖 No 🗆 Explain:	soil rooky
VEGETATION	HYDROPHYTIC VEGETATION? Yes ♥ No □
Dominant Species Ind Status Stratum Rel. % Cover	Dominant Species and Stares Strutum Rel. % Cover
1) Polmon Facts herb 45	5) Epicil Face hub 9
2) Rumari Facus Lunts 9	
3) Cop sa Face Lenb 9	
	8)
Percentage of dominant species that are OBL, FACW, and/or FAC	Favoluting EAC): $5/\omega = $3.\%$
Percentage of dominant species that are OBL, PACW, and/or PAC	fexturning 1 9 to 1
Comments:	
HYDROLOGY	WEILAND HIDROLOGI: 182 No 2
Recorded Data: Yes 🗆 No 🏋 If yes,	
Thereth of purform mores. (in) Denth to free water i	n pit: (in.) Depth to saturated sout: (m.)
Primary Indicators: Inundated Saturated in Upper 12 in. '	Water Marks 🗆 Drift Lines 💆 Sediment Deposits 🗖 Drainage Patterns in Wetlands
Consider Indicators (2 or more required):	
	s 🗆 Local Soil Survey Data 🗅 FAC-Neutral Test 🕒 Other
Comments:	HYDRIC SOILS? Yes □ No.
SOILS	
Sories/Phase: 147 Fiddy ment-Kaccheng Lozms	2 to 9 percent slopes Drainage Class: well drained
Toronomy (Submound) Five - Logury Mixed Ther	Confirm Map Type: Yes at No a
🗖 Histosol 🔘 Histic Epipedon 🖾 Sofidic Odor 🖾 Aquic Moistu	re Regime 🗆 Reducing Conditions 🖾 Gleyed/Low Chroma Colors 🖼 Concretions
☐ High Organic Content in Surface Layer in Sandy Soils ☐ Organ	ic Streaking in Sandy Soils Li Listed on Hydric Soils List Li Otter
meteatoris [petrear] itese].	Tayture Concretions Structure
A 10-11	de Color Mottle (Aband/Contrast/Size) Texture, Concretions, Structure
0-6 124244 -	
G and must a	
Comments: Fine sedments	WETLAND / WATERS DETERMINATION? Yes & No □
* DECISION * Rationale: determine two hased on high	hology and plant
Rationale: Settle 10 10 10 10 10 10 10 10 10 10 10 10 10	
Constant Continuency.	Wetland Type: Season D wash

HERBACEOUS COVER / DOMINANCE	WORK SHEE
------------------------------	-----------

	1.0	Relative Cover	<u>COVER:</u>	·	
Species Observed	Actual Cover	<u>Kelative Cover</u> 45	Vegetation	45	
Pol mon	<u>50</u>	4	Bare Ground		
Rum Cr.			Rocks		
Jun eff		9			
ypera -	<u></u>		Other	100%	
10/ml _		<u></u>	TOTAL =	100%	
Bro W/	10				
Epi_cil	/3	<u></u>	1		
Typ see	11				
Lyndac		9			
- ,	<u> </u>	<u> </u>	1		
			İ		
	<u> </u>	·			
	<u>-</u>				
	110	100%			
TOTAL SUM (Σ) :	=	100 %			
			<u> </u>		
		Completing Course	Indicator Status	Dominants	
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order)			Indicator Status	<u>Dominants</u>	
Species (Descending Order)				Dominants	
Species (Descending Order)			Indicator Status	<u>Dominants</u>	
Species (Descending Order)				Dominants	
Species (Descending Order)				Dominants	
Species (Descending Order)				Dominants	
Species (Descending Order)				Dominants	
Species (Descending Order)				Dominants	
				Dominants	
				Dominants	
				Dominants	

ENVIRONMENT	AL CONSU	LTANTS	}					
Project/Site: _ Wh	is pering (ec <u>k</u>		Date	: 10/25	1/072	Sample Point:	05
Applicant/Owner: 10 County: Places	wae Dével	t-		Field	d Investigator(s): _	K. Kwa.	<u>~</u>	
County Places		State:	CA	Plan	t Community:	Anna	I basshand	
Quad(s):	Herints	_		 Sect	ion/Township/Rar	ige: T. IOA	sort R. GEEst,	Sec. 17
Quant(s):	a conditions ari	er eita? Yes		o exul:	aiπ:			
	- 22 H E-	la:-a:						
Atypical Situation? Yes Is this a potential Proble	— Nogar Exp — Aman? Ves∏	No. 22 Ex	rolais:					
is this a potential Proble	In Agea: 103 —						YTIC VEGETATION	
VEGETATION -						нуркорн		, ,
Dominant Species	Ind. Status		Rel. % Cover		Dominant Species	Ind. Starus	Stratum Rel. % C	
1) The comp	~/ <u>L</u>	Lub	<u> 78_</u>	S) _	<u> </u>	. — -		
2)				6) _				
2)								
3)				9)				
4)				_ ره		o/	0 %	
Percentage of dominant	species that are	OBL, FAC	W, and/or FAC] [exclu	iding FAC-I:	<u></u> =		
Comments:				_		<u> </u>	<u> </u>	
<u> </u>		_ _	<u> </u>					
HYDROLOGY						WETL	AND HYDROLOGY	? Yes□ No□
Recorded Data: Yes	1.							
Recorded Data: Yes 🗆	No, Alf yes,			 _	<i>r</i> -	1 Dueth in sa	aturated soil:	(in.)
Depth of surface water:		(in.) Depti	to free water	in bitt		Deputions	Demosits 7 Drainage	Patterns in Wetlands
Primary Indicators:	Inundated 🗅 Sa	turated in U	pper 12 in. 🗆	Water	Marks 🗵 Drift Lit	jes 🔾 Semmen	(Deposits a Diamaga	E accounts the "Townson"
Secondary Indicators (.	Z or more requi	red):				Name of the Control o	enural Test 🖸 Other	
Oxidized Root Chang	iels in Upper 12	in. 🗆 Wate	r-stained Leav	⁄es □ L	ocal Soil Survey L	Jata CL PAC-IN	eaga rest o odioi _	
Comments:					<u> </u>		HVDRIC SOIT.	S? Yes □ No.
sons —			·· ·					
Series/Phase: 147 1	Fildyment-	Karaba	ig (52ms	_ 2_	<u> fa 9 percent</u>	slapes	Draidage Class: 🚾	(diamed
Toronomy (Subgroup):	Fire-low	Mil	ced the	ru <u>ic</u>	Typic Durixon	<u> +5</u>	Confirm Map Type:	Yes U No U
Ch Warnest D Winto E.	vinados 🗇 Sufi	dic Odor 🛘	Aquic Moist	are Res	ime 🗆 Reducing	Conditions Q	Gleyed/Low Chroma (Colors 🗀 Concretions
High Organic Conter	r in Surface Las	er in Sandy	Soils 🗆 Orga	anic Str	eaking in Sandy S	oils 🖫 Listed o	m Hydric Sons List C	Outer
Inclusions [Series/Phase	a Alamo	المساسم		مهاه	nession	<u> </u>	On Hydric Soils Li	st: Yes 🗷 No 🔾
		Antrix Color		rtie Col		band/Contrast/S	ize) <u>Texture, Conc</u>	retions, Structure
Depth (in.)		424/						
						<u> </u>		
				_				
			<u> </u>	-				
Comments: 4.4	diron	<u> </u>			WETLA	ND/WATER	S DETERMINATIO	N? Yes 🗆 No
* DECISION *		J	· lace		# "EILA	441		
Rationale:	1 1	<u> </u>	1 1	a(.b)	/			
General comments:	brown 6	ajace	<u>~1 77</u>	pr.	Wetland Type:			
					- Accorder y Mae:			

HERBACEOUS	COVER /	DOMINANCE	WORK SHEE	,
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Species Observed The Cop Bro Lo 1 Cic int Ep: Ci Are for 1 Cyn dec TOTAL SUM (S) =	Actual Cover 9 3 10 5 4 7	Relative Cover 78 9 4 4 100%	COVER: Vegetation Bare Ground Rocks Other TOTAL =	180%
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
		·		
				.

ECORP Consulting, Inc.	ROUTINE WETLAND DELINEATION
ENVIRONMENTAL CONSULTANTS	
Project/Site: Whispering Creek	Date: 10/24/02 Sample Point: 06
To a Development	Field Investigator(s): K. K. A.
COUNTRY Places State: CA	Plant Community: Annual (rais had
and Citrus Heights, CA	Section/Township/Range: T. 10North, R. 6 Ecst, Sec. 17
Do pormal environmental conditions exist site? Yes ANO D	If no, explain:
Americal Simplion? Ves D No X Explain:	
Is this a potential Problem Area? Yes 🗆 No 🛣 Explain:	
EGETATION	HYDROPHYTIC VEGETATION? Yes, → No □
	Bol W. Co
Dominant Species Ind. Status Statum Rel. & Cov.	<u> </u>
2)	
3)	_ ')
4)	8)
Percentage of dominant species that are OBL, FACW, and/or F	FAC [excluding FAC-]:
Comments:	
YDROLOGY .	WETLAND HYDROLOGY? Yes, ₹ No □
Proported Daras Ves Cl No M If yes	WETLAND HYDROLOGY? Yes, ₹ No □
Recorded Data: Yes 🗆 No 📈 If yes,	tter in pit: (ip.) Depth to saturated soil:(in.)
Recorded Data: Yes 🗆 No 🛣 If yes,	tter in pit: (ip.) Depth to saturated soil:(in.)
Recorded Data: Yes 🗆 No 📈 If yes, (in.) Depth to free wa Primary Indicators: 🗆 Inundated 🗀 Saturated in Upper 12 in. Secondary Indicators: (2 or wave required):	uter in pit: (in.) Depth to saturated soil: (in.) **Water Marks
Recorded Data: Yes 🗆 No 📈 If yes, (in.) Depth to free wa Primary Indicators: 🗀 Inundated 🗀 Saturated in Upper 12 in. Secondary Indicators: (2 or ware required):	uter in pit: (in.) Depth to saturated soil: (in.) **Water Marks
Recorded Data: Yes \(\text{No } \) If yes,	tter in pit: (ip.) Depth to saturated soil:(in.)
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Lin.} \) Depth to free water: \(\text{Lin.} \) Depth to free water: \(\text{Lin.} \) Saturated in Upper 12 in. Secondary Indicators (2 or more required): \(\text{Lin.} \) Oxidized Root Channels in Upper 12 in. \(\text{Lin.} \) Water-stained L. Comments: \(\text{Lin.} \)	uter in pit: (in.) Depth to saturated soil: (in.) Water Marks Drift Lines Deposits Deposits Drainage Patterns in Wetlan
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Lin.} \) Depth to free water: \(\text{Cin.} \) Depth to free water \(\text{Primary Indicators: } \text{Lin.} \) Inundated \(\text{Lin.} \) Sacondary Indicators (2 or more required): \(\text{Lin.} \text{Lin.} \) Oxidized Root Channels in Upper 12 in. \(\text{Lin.} \text{Lin.} \) Water-stained L. Comments: \(\text{Lin.} \)	tter in pit: (in.) Depth to saturated soil: (in.) Water Marks Drift Lines Deposits De
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Lin.} \) Depth to free water: \(\text{Lin.} \) Depth to free water: \(\text{Lin.} \) Contact Indicators: \(\text{Lin.} \) Inundated \(\text{Lin.} \) Sacondary Indicators (2 or more required): \(\text{Lin.} \) Oxidized Root Channels in Upper 12 in. \(\text{Lin.} \) Water-stained L. Comments: \(\text{Lin.} \) Comments: \(\text{Lin.} \) Series/Phase: \(\text{Lin.} \) Till \(\text{Lin.} \) \(\text{Lin.} \) \(\text{Lin.} \) \(\text{Lin.} \)	tier in pit: (in.) Depth to saturated soil: (in.) *Water Marks
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water are required in Upper 12 in. Secondary Indicators: \(\text{Depth more required} \): \(\text{Oxidized Root Channels in Upper 12 in. } \(\text{Ownerests: } \) Comments: \(\text{DILS} \) Series/Phase: \(\text{I+7 } \) \(\text{Fidence} \) \(Fide	tier in pit:
Recorded Data: Yes \(\text{No } \) If yes, \(\text{In.} \) Depth to free wa Primary Indicators: \(\text{Inundated} \) Inundated \(\text{Saturated in Upper 12 in.} \) Secondary Indicators (2 or more required): \(\text{Oxidized Root Channels in Upper 12 in.} \) Water-stained L. Comments: OH.S Series/Phase: \(\text{Implication } \) Add \(\text{Implication } \) \(Imp	tier in pit:
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water and in the surface water in the surface of the s	tier in pit:
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water and in the surface water in the surface of the s	The state of the saturated soil:
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water and in Upper 12 in. \(\text{Depth of surface water: } \) (in.) Depth to free water and in Upper 12 in. \(Depth of surface of the s	tier in pit:
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water and in the surface water in the surface of the s	The state of the saturated soil:
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water and in the surface water in the surface of the s	The state of the saturated soil:
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water and in the surface water in the surface of the s	The state of the saturated soil:
Recorded Data: Yes \ No \ No \ M If yes, \	tter in pit:
Recorded Data: Yes \ No \ No \ If yes, \	tter in pit:
Depth of surface water:	tter in pit:
Recorded Dara: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth to free water and in the surface of the surface	tter in pit:

HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed Typ Lat Pol per Ep. c.! Lypera Rum pr Lyp dan	Actual Cover S S S S S S T T T T T T T	Relative Cover 3 8 8 8	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ)	= 75	100%		
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
· · · · · · · · · · · · · · · · · · ·				
				·

ENVIRONMENT						,		_
Project/Site: Wh.	specins 6	rek_		Dai	e: <u>10/24</u>	102	Sample Point: _	97
Applicant/Owner: To	une Devel	t-man-t		Fic	ld Investigator(s):	K. Kwa		
County: Places		State: _	۷4	Pla	nt Community:	Anno	wh Gongslav	-d
Quad(s):	Heights	_ . (A		Sec	tion/Township/Ra	nge: <u>T. 101</u>	O. 17h, R. 656	t, Sec. 17
Do normal environmenta	al conditions ex	ist site? Yes	Mo □ If n	- ю, ехр	lain:			<u> </u>
Abunical Simplian? Yes	D No. DK Exc	olain:						
Is this a potential Proble	m Arca? Yes C	No	oplain:		<u></u>			
VEGETATION								ION? Yes 🗆 No 🗗
			Rel. % Cover		Dominant Species		Stratum Rel.	ő Cover
Dominant Species				£3				
1) Tal cup								
2)								
3)								
4>				8).				
Percentage of dominant	species that are	OBL, FAC	W, and/or FAC	[excl	nding FAC-):	"	 %	
Comments:						<u> </u>		
								
	 -					WETT	AND HYDROLO	GY? Yes □ No ﷺ
HYDROLOGY					··	L		·
Recorded Data: Yes 🗆	No 🏿 If yes, _					<u> </u>		
Depth of surface water:		(in.) Depth	to free water	in pit:	(ir	i.) Depth to so	aturated spil:	(in.)
Primary Indicators:	Inundated 🗅 S	aturated in U	pper 12 in. 🗅	Water	Marks 🖫 Drift Li:	nes 🗆 Sedimen	t Deposits 🚨 Drain	age Patterns in Wetland
Secondary Indicators (2	der more requi	ired):				=		
☐ Oxidized Root Chang	ieis in Upper 17	in. □ Wate	r-stained Leav	es □ I L	ocal Soil Survey l	Data CI FAC-Ni	eutrai Test 🔾 Other	
Comments: _ + pla_	d adja	<u>: "سع</u>	fo /AT		<u> </u>		HVDDIC SC	ILS? Yes D No.
OILS	···		·					
Series/Phase: 147 F	Tiddyment-	Kerelse	is lowns	, 2	to 9 parent	slopes	Drainage Class: 1	rell drained
Taxonomy [Subgroup]:	File-low	my wix	ed the	rmic	Typic During	<u> 1ተ</u> ኔ	Confirm Map Typ	e: Yes 🗆 No 🗔
☐ Histosol ☐ Histic Ec	inedon 🗆 Sufi	idic Odor 🛭	Aquic Moistr	re Reg	ime 🗆 Reducing	Conditions 🖵	Gleyed/Low Chron	ia Colors 🖸 Concretion
☐ High Organic Conten	t in Surface La	yer in Sandy	Soils 🗓 Orga	mic St	eaking in Sandy S	oils 🗅 Listed o	n Hydric Soils List	U Other
Inclusions [Series/Phase				dep	~1516m		On Hydric Soils	List: Yes 🛣 No 🖵
		Matrix Color		rtle Col	or Mottle (A	bund/Contrast/S	ize). Texture. Co	neretions, Structure
0-4		·424/3					_ <u>·</u>	<u>-</u>
							 -	
					<u> </u>			
Comments: h.	76 WA							
DECISION •					WETLA	ND / WATER	S DETERMINAT	ION? Yes 🗆 No 🗗
Rationale: 6 H	دا نا	t met						
General comments:	walnut	ad in	m 1 +	.	06		<u></u>	
- and or sommings, "					Wetland Type:			

HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed Toe unp Bro had Lyndau Epi cil Ere set Ital nir Lan sel Are Ent	Actual Cover 75 25 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Relative Cover 5 8 1 9 4 4 5 8 100%	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status Don	nicants
		·		
			· · · · · · · · · · · · · · · · · · ·	
·				

ECORP Consulting, Inc. ROUTINE WETLAND DELINEATION ENVIRONMENTAL CONSULTANTS Project/Site: Whisperry Creek Date: 13/24/02 Sample Point: 08 _____ Field Investigator(s): K. Kwaw Applicant/Owner: Towns Development County: Place ___ State: A Plant Community: __ Annal Gass land Quad(s): Citrus Heights, CA Section/Township/Range: T. 10 North, R. 6 East Sec. 17 Do normal environmental conditions exist site? Yes 🗷 No 🗅 If no, explain: Atypical Situation? Yes 🗆 No 💢 Explain: ______ Is this a potential Problem Area? Yes 12 No - Explain: without Heart of Coms during HYDROPHYTIC VEGETATION? Yes 2 No D VEGETATION Stratum Rel. % Cover Ind. Status Dominant Species Stratum Rel. % Cover Ind. Status Dominant Species Percentage of dominant species that are OBL, FACW, and/or FAC (excluding FAC-): _____ WETLAND HYDROLOGY? Yes O No D Recorded Data: Yes 🗆 No 🌣 If yes, ______ Depth of surface water: ______(in.) Depth to free water in pit: _______(in.) Depth to saturated soil: _______(in.) Primary Indicators: 🛘 Inundated 🗖 Saturated in Upper 12 in. 🗘 Water Marks 🗖 Drift Lines 💆 Sediment Deposits 🗖 Drainage Patterns in Wetlands Secondary Indicators (2 or more required): 🖸 Oxidized Root Channels in Upper 12 in. 🗖 Water-stained Leaves 🗖 Local Soil Survey Data 🗇 FAC-Neutral Test 🗖 Other _____

ОПР			 	HIDRIC SQUEST TESM NO C
OLS —				
Series/Phase: 147	+ Fiddame	-t-Karehera	652ms, 2 to	9 parent 5 lope > Drainage Class: well drained Duri x = 1 f S Confirm Map Type: Yes No
Scalestange, 11			1 shornie Tro	Confirm Map Type: Yes 🗆 No 🕽
Taxonomy [Subgro	up)։ <u>Իռաշե</u> ւ	ormal mixes	, 4 mart 1711	- Concretion
□ 19:1 □ 19:	da Walandon 🎞	Sufficie Odor 🖾 Aq	uic Moisture Regime	A Reducing Conditions in Gleyers Low Circum Colors and Comment
		- 1 D1- Call	la 🗀 Camania Streskin	is in Sandy Soils Listed on Hydric consider Contest -
a ingresigance of	Ala		ودوم معام آيات	On Hydric Soils List: Yes No 🗆
Inclusions [Series/F	hasel:	mo (Recussors)		Monte (Abund/Contrast/Size) Texture, Concretions, Structure
Depth (in.)	Horizon	Matrix Color	Mottle Color	Mothe (Noville Contemporary
D - 6		10414/3	104 V3 18	
·				
				
Comments:				
· -				WETLAND / WATERS DETERMINATION? Yes No D
* DECISION * Rationale:	100	L. bee	. n.e 1	
Rationale:	C4 - 1-5	*****	 	

Wetland Type: __

General comments:

Species Observed Life a ru Rum con Typ 5 pc Sin 25 p Rum Cri Asc. min Luc sen Sol 900 Pop 112	Actual Cover 4 9 1 2 5 5 6 1 2 1 2 1 2 1 2 1 2 1 2 1 2	Relative Cover	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ)	= \So	100%		
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status Do	<u>ប្រាំក្នុងរា៤</u>
				
				
				

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ENVIRONMENTAL CONSULTANTS	/
Project/Site: Whispering Creek	Date: 10/14/22 Sample Point: 09
Applicant/Owner: Towne Development	Field Investigator(s): K. Kwaw
County: Place State:	Plant Community: An and Coass and
Ovadist: Citrus Heights, CA	Section/Township/Range: T. 10 North, 12. 6 East, Sec. 17
	xplain:
Atypical Situation? Yes O No K Explain:	
Is this a potential Problem Area? Yes - No X Explain:	
	HYDROPHYTIC VEGETATION? Yes □ No.
	Dominant Species Ind. Status Stratum Rel. % Cover
Dominant Species Ind. Status Stratum Rel. % Cover)
•,	·
2)	·)
+/ <u></u> =	")
4)	S)
Percentage of dominant species that are OBL, FACW, and/or FAC [e	xcluding FAC-]: =
Comments:	
RYDROLOGY	WETLAND HYDROLOGY? Yes O No. BY
RYDROLOGY	
Recorded Data: Yes Cl No Orlf yes,	
Depth of surface water: (int.) Depth to free water in [oit: (in.) Depth to saturated soil: (in.)
Primary Indicators: Inundated Securated in Upper 12 in. Wa	tter Marks 🗅 Drift Lines 🕽 Sediment Deposits 🗅 Drainage Patterns in Wetland
Secondary Indicators (2 or more required):	To the state of th
☐ Oxidized Root Channels in Upper 12 in. ☐ Water-stained Leaves (☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other
Comments:	HYDRIC SOILS? Yes □ No.
20172	
Series/Phase: 147 Fiddy ment-Karelseng Loams	2 to 9 power + slopes Drainage Class: well drained
Taxonomy [Subgroup]: Fire-Loung, mixed, there	Confirm Map Type: Yes 🗆 No 🔾
☐ Histosol ☐ Histic Empedon ☐ Sufidic Odor ☐ Aquic Moisture I	Regime 🗖 Reducing Conditions 🗖 Gleyed/Low Chroma Colors 🚨 Concretion
☐ High Organic Content in Surface Layer in Sandy Soils ☐ Organic	Streaking in Sandy Soils Listed on Hydric Soils List Other
Inclusions [Series/Phase]: Alamo (religious in d	On Hydric Soils List: Yes A No
Depth (in.) Horizon Matrix Color Mottle	Color Mottle (Abund/Contrast/Size) Texture, Concretions, Structure
0-4 1041/3	
<u> </u>	
Comments: high drown	
* DECISION *	WETLAND / WATERS DETERMINATION? Yes □ No.4
Rationale: Cr. + Crim have not been me	<i>+</i>
General comments: Lpland - of a coul to	p1. 28
	Wetland Type:

HERBACEOUS COVER	1	DOMINANCE	١	WORK	SHEET
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Species Observed The Comp Las sen Bro Lon Tr. Lon En set And fact And fact Total SUM (\(\Sigma\) =	Actual Cover 75 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Relative Cover 63 4 17 4 4 4 4 190%	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ) =		100%		
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status D	• Oominants
	<u> </u>			
				
	<u> </u>			
	<u> </u>			
	<u> </u>			

APPENDIX B

Plant List

Whispering Creek – Wetland Delineation Plants Observed at Data Points

Abbr.	Scientific Name	Common Name	Indicator Status
AVE FAT	Avena fatua	Wild oat	N/L
BRI MIN	Briza minor	Little quaking grass	FACU
BRO DIA	Bromus diandrus	Ripgut brome	N/L
BRO HOR	Bromus hordeaceus	Soft brome	FACU-
√CIC INT	Cichorium intybus	Chicory	NI
CYN DAC	Cynodon dactylon	Bermuda grass	FAC
CYP ERA	Cyperus eragrostis	Tall flatsedge	FACW
EPI CIL	Epilobium ciliatum	Hairy willow-herb	FACW
. ERE SET	Eremocarpus setigerus	Turkey mullien	N/L
HOL VIR	Holocarpha virgata	Sticky tarweed	N/L
JUN EFF	Juncus effusus	Soft rush	OBL
LAC SER	Lactuca serriola	Prickly lettuce	FAC
LOL MUL	Lolium multiflorum	Ryegrass	FAC*
LYT HYS	Lythrum hyssopifolium	Hyssop loosestrife	FACW
· PLA STI	Plagiobothrys stipitatus	Slender popcorn-flower	OBL
· POL ARE	Polygonum arenastrum	Prostrate knotweed	FAC
POL PER	Polygonum persicaria	Lady's thumb	FACW
POL MON	Polypogon monspeliensis	Annual rabbit-foot grass	FACW+
POP FRE	Populus fremontil	Fremont's cottonwood	FAC+*
RUM CON	Rumex conglomeratus	Clustered dock	FACW
RUM CRI	Rumex crispus	Curly dock	FACW-
RUM PUL	Rumex pulcher	Fiddle dock	FAC+
SAL GOO	Salix gooddingii	Goodding's black willow	FACW
· SON ASP	Sonchus asper	Prickly sowthistle	FACU
TAE CAP	Taeniatherum caput-medusae	Medusahead grass	N/L
TRI HIR	Trifolium hirtum	Rose clover	N/L
TYP LAT	Typha latifolia	Broad-leaf cattail	OBL
TYP spe.	Typha species	Cattail	OBL
VIC spe.	Vicia species	Vetch	_ -

Indicator Status Codes

OBL = Obligate Wetland; occur almost always (estimated probability >99%) under natural conditions in wetlands.

FACW = Facultative Wetland; usually occur in wetlands (estimated probability 67%-99%) under natural conditions in wetlands.

FAC = Facultative; equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).

FACU = Facultative Upland; usually occur in non-wetlands (estimated probability 67%-99%).

UPL = Obligate Upland; occur almost always (estimated probability >99%) in non-wetlands in the region specified.

N/L = Not Listed.

NI = No Indicator was recorded for those species for which insufficient information was available to determine a status.

-- = May or may not occur in wedands depending upon species.

A positive (+) sign indicates a frequency toward the higher (more frequently found in wetlands) end of the facultative categories. A negative (-) sign indicates a frequency toward the lower (less frequently found in wetlands) end of the facultative categories. An asterisk (*) indicates a tentative assignment based upon limited information or conflicting review.

APPENDIX C

Wetland Delineation

NOT INCLUDED

II heat color separator

Sheet head

WETLAND DELINEATION

For

PFE 14 PROPERTY

(PLACER COUNTY, CALIFORNIA)

March 14, 2003

Prepared for: County Builders, LLC.



WETLAND DELINEATION

CONTENTS

PFE 14 PROPERTY

INTRODUCTION	1
SURVEY METHODOLOGY	1
EXISTING SITE CONDITION	3
WATERS OF THE U.S.	
Wetlands	3
INTERSTATE OR FOREIGN COMMERCE	5
CONCLUSION	
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Figure 2 – Wetland Delineation

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Appendix C – Wetland Delineation

INTRODUCTION

On behalf of County Builders, LLC, ECORP Consulting, Inc. has conducted a wetland delineation of the PFE 14 site located in unincorporated western Placer County, California. PFE 14 is a 14acre undeveloped parcel west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single familyhomes fronting Eigin Hills Way, on the east and west by undeveloped lands and rural residences, and on the north by PFE Road. This site corresponds to a portion of Section $17\,$ of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U.S. Department of the Interior, Geological Survey 1992) (Figure 1).

APPLICANT:

AGENT:

Attn:

Attn: Mr. Jack Coulter

County Builders, LLC

3050 Tilden Drive

Roseville, California 95661-7942

Phone: (916) 782-1640 Fax: (916) 782-1810

ECORP Consulting, Inc.

2260 Douglas Blvd., Suite 160 Roseville, California 95661

Mr. Keith Kwan

Phone: (916) 782-9100 (916) 782-9134 Fax:

SURVEY METHODOLOGY

The wetland delineation was conducted on February 6, 2003, during which time, biologists Keith Kwan and Reed Hentze walked and inspected the entire site to determine the extent of potential waters of the U.S. within the project site. This wetland delineation was conducted in accordance with the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987). Wetland boundaries and a number of three parameter data points were mapped and their Global Positioning System (GPS) coordinates were logged and recorded with a Trimble PROXR unit. A black and white aerial photograph (1"=100,' flown on April 4, 2000) was utilized to assist with mapping and ground-truthing. A Munsell Soil Color Chart (Kollmorgen Instruments Corp. 1990) was used to identify hydric soils in the field, and the Jepson Manual (Hickman 1994) was used for plant identification.

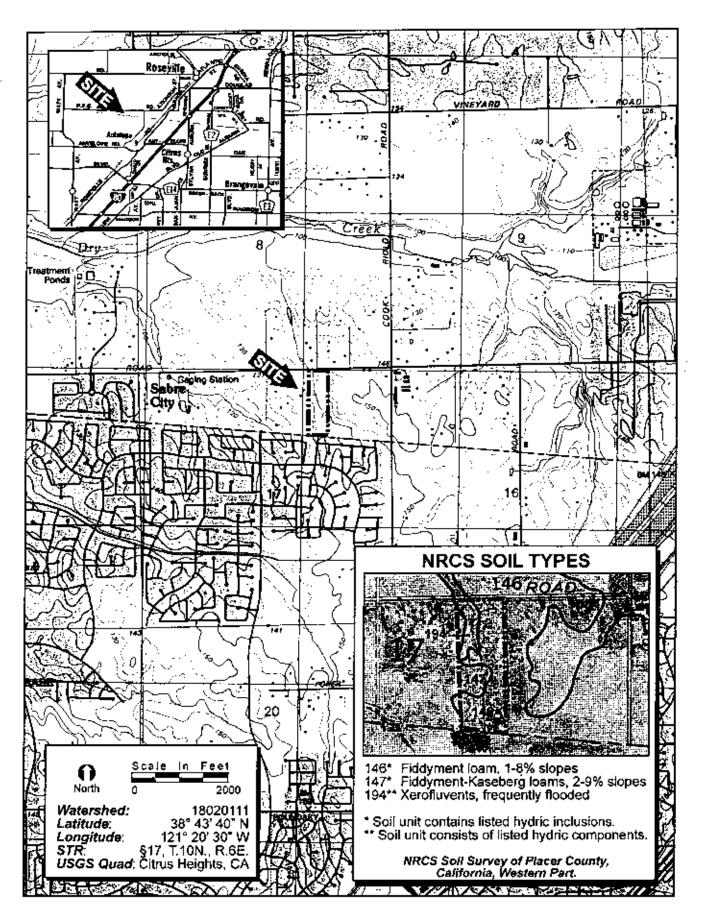


FIGURE 1. Project Site and Vicinity

The survey was conducted at the end of the growing season and many plant species had flowered, and most annual species had already declined.

EXISTING SITE CONDITIONS

The PFE 14 site is currently comprised of abandoned orchard, non-native annual grassland with a wetland swale, and a rural residence with associated outbuildings. The site topography is gently rolling, and is situated at an elevation of approximately 140 feet above mean sea level. The orchard, which does not appear to be in active production or harvest, is made up of primarily almond (*Prunus dulcis*) trees. The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistie (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*). Other scattered trees on-site include blue gum (*Eucalyptus globulus*) and blue oak (*Quercus douglasii*).

According to the *Soil Survey of Placer County, California, Western Part* three soil units have been mapped for the site, (146) Fiddyment loam, 1 to 8 percent slopes, (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes, and (194) Xerofluvents, frequently flooded (U.S. Department of Agriculture, Soil Conservation Service 1980).

WATERS OF THE U.S.

Potentially jurisdictional waters of the U.S. mapped total 1.898 acres and are comprised of a seasonal wetland swale. Three parameter wetland delineation data sheets have been included as Appendix A, and a list of plant species observed at the data collection points is included as Appendix B. The wetland delineation is presented as Figure 2 and in Appendix C.

Wetlands

The seasonal wetland swale is comprised of herbaceous hydrophytic plants with a few scattered black willows (*Salix gooddingil*). The wetland may be characterized as seasonal, but is largely

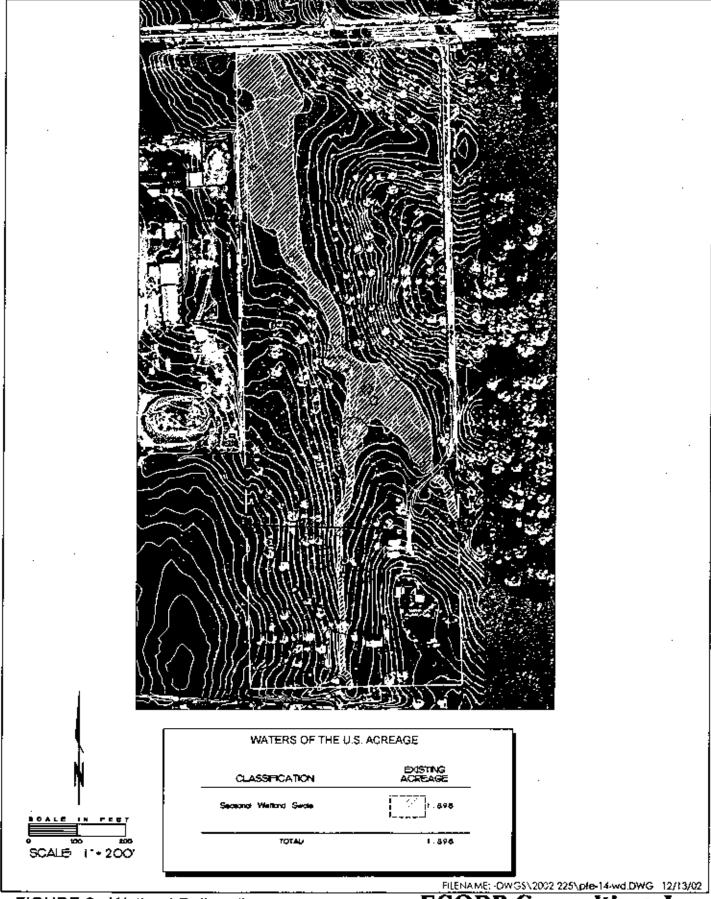


FIGURE 2. Wetland Delineation

dependent upon storm water runoff from the subdivision south of the site. Consequently, during periods of excessive runoff from landscape irrigation, this wetland swale becomes saturated and inundated in the lower lying areas. This may occur during any season through the year. Herbaceous vegetation within the swale includes tall flatsedge (*Cyperus eragrostis*), spearmint (*Mentha spicata*), datlisgrass (*Paspalum dilatatum*), and curly dock (*Rumex crispus*).

The wetland swale flows in the south to north direction and is largely fed by a storm drain from the subdivision south of the PFE 14 site. The swale is well defined until it widens out within a topographically low-lying area within the abandoned orchard. Flows are directed into culverts on P.F.E. Road. Additional runoff into the swale comes from a stock pond outfall within the adjacent parcel east of the site.

INTERSTATE OR FOREIGN COMMERCE

The wetlands mapped on-site are within the Dry Creek watershed. Dry Creek is located several hundred yards to the north of the site. Due to the rolling topography of the site, overland flows of rainwater accumulate within the on-site wetland swale, and during the wet season, water levels increase and eventually spill into larger drainages on-site and off-site. These flows ultimately reach Dry Creek. Dry Creek eventually flows into the Sacramento River, which is navigable water. Thus, these waters should be considered tributary and/or adjacent to a documented Water of a U.S. and would therefore be subject to interstate and/or foreign commerce.

CONCLUSION

Potentially jurisdictional waters of the U.S. mapped total 1.898 acres and are comprised of a seasonal wetland swale. Upon verification of this wetland delineation by the Corps of Engineers, any impact to this feature would require permitting pursuant to Section 404 and 401 of the federal Clean Water Act.

REFERENCES

- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station. Vicksburg, Mississippi.
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- U.S. Department of Agriculture, Soil Conservation Service. 1980. Soil Survey of Placer County Western Part, California. U.S. Department of Agriculture, Soil Conservation Service. Davis, California.
- U.S. Department of the Interior, Geological Survey. 1992. "Citrus Heights, California" 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.

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Appendix A. Wetland Delineation Data Sheets

Appendix B. Plant List

Appendix C. Wetland Delineation

APPENDIX A

Wetland Delineation Data Sheets

ENVIRONMENTAL CONSULTANTS	
Project/Site: PFE 14	Date: 2/6/33 Sample Point: 0/
Applicant/Owner: County Builder: LLC	
County: Placer State: CA	Plant Community: Annual Gassland
Ouad(s): Citra, Heights, CA	Section/Township/Range: T. 10 North R. 6 End sec. 17
	o, explain:
Atypical Situation? Yes 🗆 No 🛱 Explain:	
Is this a potential Problem Area? Yes I No I Explain:	ensorally enundated
	HYDROPHYTIC VEGETATION? Yes No D
Dominant Species Ind. Status Stratum Rel. % Cover	Dominant Species Ind. Status Stratum Rel. % Cover
1) Lot mil Fic hub 80	
2)	6)
3)	7)
4)	
Percentage of dominant species that are OBL, FACW, and/or FAC	[excluding FAC-]:// =%
Comments:	
HYDROLOGY	WETLAND HYDROLOGY? Yes No □
	WEILAND HYDROLOGY: 189Q No C
Recorded Data: Yes 🗆 No 🔯 If yes,	
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all criteria have been

Rationale:

General comments:

Wetland Type: wotland Surcho

HERBACEOUS COVER	/ DOMINANCE WORK	SHEET
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TOTAL SUM (Σ) =		100%		
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>

TOTAL SUM $(\Sigma) = 100\%$

ECORP Consulting, Inc.

ROUTINE WETLAND DELINEATION

Project/Site: PFE 14	
Applicant/Owner: County Builders LLC	Field Investigator(s): K. Kuszu / R. He-tze
County: Placer State: CA	Plant Community: Arrand Constand
Quad(s): Citr-, Heights, CA	Section/Township/Range: T. 10 North, R. 6 East Sec. 17
	fno, explain:
/EGETATION —	HYDROPHYTIC VEGETATION? Yes □ N
Dominant Species Ind. Status Stratum Rel. % Cover	
1) Tae cap N/L hab 78	
,	
2)	
3)	
4)	
Percentage of dominant species that are OBL, FACW, and/or FA	AC [excluding FAC-]: $\frac{0}{i} = \frac{\mathcal{O}}{4}$
Comments:	
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Depth of surface water:	wes Depth to saturated soil:

HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed The Comp This spe And God	Actual Cover チン /シ	Relative Cover 78 //	COVER: Vegetation Bare Ground Rocks Other	<u></u> & \$
			TOTAL =	100%
TOTAL SUM (Σ) =	<u>90</u>	100%		<u>.</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status Don	ninants ————————————————————————————————————
		•		
			· · · · · · · · · · · · · · · · · · ·	-

TOTAL SUM $(\Sigma) = 100\%$

ECORP Consulting, Inc.

ROUTINE WETLAND DELINEATION

Project/Site: PFE 14	- /· / ⁽²⁾
	Date:2/6/03 Sample Point:03
Applicant/Owner County Builders LLC	Field Investigator(s): K. Kurau/ R. Hentag
County: Placer State: CA	Plant Community: Annual Gazistand
Quad(s): Citras Heights, (A	Section/Township/Range: T. 10 North, R. 6 East sec. /
	If no, explain:
Atypical Simation? Yes O No. Explain:	see soul pooling
Is this a potential Problem Area? Yes 🗗 No 🗆 Explain:	Seesonel proling
EGETATION	HYDROPHYTIC VEGETATION? Yes
Dominant Species Ind. Status Stratum Rel. % Cov	rer <u>Dominant Species</u> <u>Ind. Status</u> Stratum Rel. % Cover
1) 60/ mil Fac. herb 24	
1) Loland Fac herb 24 2) Lynda: Fac herb 24	6)
3) Lypera From hub 19	7)
4) Men spi Frew hends 19	
Percentage of dominant species that are OBL, FACW, and/or F	
Comments:	
-	
Recorded Data: Yes □ No ☐ If yes,	
Depth of surface water: (in.) Depth to free wat	ter in pit: (in.) Depth to saturated soil: 1/2 544 (in.)
	☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits 🗷 Drainage Patterns in
Secondary Indicators (2 or more required):	
	taves 🖸 Local Soil Survey Data 🗅 FAC-Neutral Test 🗖 Other
('Aramenie:	
ous —	HYDRIC SOILS? Yes_DY
Series/Phase: 194 Xerofluvents, frequents	flooded Drainage Class: postly durin
Series/Phase: 194 Xerofluvents, frequently Taxonomy [Subgroup]: Xerofluvents Therm	Flooded Drainage Class: part dans Confirm Map Type: Yes 🗆 No
Series/Phase: 194 Xerofluvents, frequents, Taxonomy [Subgroup]: Xerofluvents, Therm Histosol I Histic Epipedon I Sufidic Odor (Aquic Moi	Flooded Drainage Class: pool of John Confirm Map Type: Yos No sture Regime Reducing Conditions Gleyed/Low Chroma Colors Green
Series/Phase: 194 X2 roflowerth, frequently Taxonomy [Subgroup]: X2 roflowerth, The run Histosol Histo Epipedon Suffice Odor Aquic Mois High Organic Content in Surface Layer in Sandy Soils Or	HYDRIC SOILS? Yes A flooded Drainage Class: perlador. Confirm Map Type: Yes \(\text{\text{No}}\) No sture Regime \(\text{\text{Reducing Conditions}}\) Gleyed/Low Chroma Colors \(\text{\text{Confirm Map Type:}}\) Corganic Streaking in Sandy Soils \(\text{\text{Listed on Hydric Soils List }\) Other
Series/Phase: 194 X2 rof(vent), frequently Taxonomy [Subgroup]: Xecof(vent), frequently Histosol Histic Epipedon Sufidic Odor Aquic Mois High Organic Content in Surface Layer in Sandy Soils Or Inclusions [Series/Phase]: Xerof(vent) company	HYDRIC SOILS? Yes Flooded Drainage Class: part donor Confirm Map Type: Yes □ No sture Regime □ Reducing Conditions □ Gleyed/Low Chroma Colors □ Co reganic Streaking in Sandy Soils □ Listed on Hydric Soils List □ Other On Hydric Soils List: Yes □
Series/Phase: 194 X2 rof(vent), frequently Taxonomy [Subgroup]: Xecof(vent), frequently The rem Histosol Histic Epipedon Sufidic Odor Aquic Mois High Organic Content in Surface Layer in Sandy Soils On Inclusions [Series/Phase]: Xerof(vent) company	HYDRIC SOILS? Yes A flooded Drainage Class: perlador. Confirm Map Type: Yes \(\text{\text{No}}\) No sture Regime \(\text{\text{Reducing Conditions}}\) Gleyed/Low Chroma Colors \(\text{\text{Confirm Map Type:}}\) Corganic Streaking in Sandy Soils \(\text{\text{Listed on Hydric Soils List }\) Other
Series/Phase: 194 X2rofluvents, frequents Taxonomy [Subgroup]: X2rofluvents, Therm Histosol Histic Epipedon Sufidic Odor Aquic Mois High Organic Content in Surface Layer in Sandy Soils Or Inclusions [Series/Phase]: X2rofluvents company Depth (in.) Horizon Matrix Color N	HYDRIC SOILS? Yes Flooded Drainage Class: part donor Confirm Map Type: Yes □ No sture Regime □ Reducing Conditions □ Gleyed/Low Chroma Colors □ Co reganic Streaking in Sandy Soils □ Listed on Hydric Soils List □ Other On Hydric Soils List: Yes □
Series/Phase: 164 X2rofluvent, frequently Taxonomy [Subgroup]: X2rofluvent, Therm Thistosol Thistic Epipedon D Sufidic Odor Maquic Mois High Organic Content in Surface Layer in Sandy Soils D Or Inclusions [Series/Phase]: X2rofluvent; Company Depth (in.) Horizon Matrix Color N	HYDRIC SOILS? Yes A Flooded Drainage Class: part donor Confirm Map Type: Yes No sture Regime Reducing Conditions Gleyed/Low Chroma Colors Configure Streaking in Sandy Soils Listed on Hydric Soils List Other (data and soils On Hydric Soils List: Yes Total
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Series/Phase: 194 Xerofluvents, frequents Taxonomy [Subgroup]: Xerofluvents, Therm Histosol Histo Epipedon Sufidic Odor Aquic Mois High Organic Content in Surface Layer in Sandy Soils Or Inclusions [Series/Phase]: Xerofluvents company Depth (in.) Horizon Matrix Color N 7-5403/2	HYDRIC SOILS? Yes
Series/Phase: 164 X2rofluvent, frequently Taxonomy [Subgroup]: X2rofluvent, Therm Thistosol Thistic Epipedon Touring Aquic Mois High Organic Content in Surface Layer in Sandy Soils Touring Inclusions [Series/Phase]: X2rofluvent; 2500000 Depth (in.) Horizon Matrix Color No. 7-5412 3/2 Comments: DECISION*	HYDRIC SOILS? Yes A Flooded Drainage Class: part donor Confirm Map Type: Yes No sture Regime Reducing Conditions Gleyed/Low Chroma Colors Configure Streaking in Sandy Soils Listed on Hydric Soils List Other (data and soils On Hydric Soils List: Yes Total
Series/Phase: 194 Xerofluvents, frequents, Taxonomy [Subgroup]: Xerofluvents, Therm Thistosol Thistic Epipedon Tourist (Aquic Mois High Organic Content in Surface Layer in Sandy Soils Tourist (Applications) (Series/Phase): Xerofluvents (Applications) (Applic	HYDRIC SOILS? Yes A Drainage Class: part domin Confirm Map Type: Yes No sture Regime Reducing Conditions Gleyed/Low Chroma Colors Co rganic Streaking in Sandy Soils Listed on Hydric Soils List Other
Series/Phase: 194 Xerofluvents, frequents, Taxonomy [Subgroup]: Xerofluvents, Therm Thistosol Thistic Epipedon Tourist (Aquic Mois High Organic Content in Surface Layer in Sandy Soils Tourist (Applications) (Series/Phase): Xerofluvents (Applications) (Applic	HYDRIC SOILS? Yes

HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed (s/mul Cypera Man 5p. Cyndac from cr. Pip mil Pas dril	Actual Cover 7.5 20 20 25 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Relative Cover 24 / 4 / 5 2-4 5 5 100%	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants —
			· · · · · · · · · · · · · · · · · · ·	
TOTAL SUM (Σ) =	100%			

ECORP Consulting, Inc. ROUTINE WETLAND DELINEATION ENVIRONMENTAL CONSULTANTS Project/Site: PFE 14 _____ Date: __2/6/03 Applicant/Owner: County Builders LLC Field Investigator(s): K. Kuran / R. Hentes County: Placer __ State: CA Plant Community: Amount Grand and Quad(s): Citros Heights. CA Section/Township/Range: T. 10 North, R. 6 East sec. 17 Do normal environmental conditions exist site? Yes 🗷 No 🗆 If no, explain: Atypical Situation? Yes 🗅 No 🙀 Explain: Is this a potential Problem Arca? Yes 🖸 No 😾 Explain: VEGETATION HYDROPHYTIC VEGETATION? Yes 2 No. 2 Dominant Species Ind. Status Stratum Rel. % Cover Dominant Species Ind. Status Stratum Rel. % Cover 8) _____ _ Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: ______= Comments: HYDROLOGY -WETLAND HYDROLOGY? Yes D No.21 Recorded Data: Yes 🖸 No 💢 If yes, ______ Depth of surface water: ______ (in.) Depth to free water in pit: ______ (in.) Depth to saturated soil: (in.) Primary Indicators: 🔾 Inundated 🥽 Saturated in Upper 12 in. 🔾 Water Marks 🗘 Drift Lines 🗘 Sediment Deposits 🗘 Drainage Patterns in Wetland Secondary Indicators (2 or more required): ☐ Oxidized Root Channels in Upper 12 in. ☐ Water-stained Leaves ☐ Local Soil Survey Data ☐ FAC-Neutral Test ☐ Other Comments: SOLLS HYDRIC SOILS? Yes D No.27 Series/Phase: 147 Fiddyment-Kaseberg Loams 2 to 9 percents by Drainage Class: well drained Taxonomy [Subgroup]: Fine - Lorang unived thermic Typic Ourizers of Confirm Map Type: Yes No 1 🔾 Histosol 🗖 Histic Epipedon 🗖 Sufidic Odor 🗖 Aquic Moisture Regime 🔾 Reducing Conditions 🗎 Gleyed/Low Chroma Colors 🗖 Concretion 🗆 High Organic Content in Surface Layer in Sandy Soils 🗅 Organic Streaking in Sandy Soils 🗅 Listed on Hydric Soils List 🗅 Other Inclusions [Series/Phase]: Alamo inclusion (lagras on 5) On Hydric Soils List: Yes No 1 Depth (in.) Horizon Matrix Color Mottle Calor Mottle (Abund/Contrast/Size) Texture, Concretions, Structure 754121/3 Comments: DECISION * WETLAND / WATERS DETERMINATION? Yes □ No 및

Wetland Type:

General comments: upland one adjacent to

HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed The cap Lolmol Ger Li, TOTAL SUM (D)	Actual Cover 90 /> /> 5	Relative Cover	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
				•••
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	

TOTAL SUM (Σ) = 100%

ECORP Consulting, Inc.

ROUTINE WETLAND DELINEATION

Applicant/Owner: Lounty Builders	LLC Field Investigator(s): K Kwan/ R Houtze
County: Placer State	: CA Plant Community: Annal Eastland
Quad(s): Citro, Heights, CA	Section/Township/Range: T. 10 North, R. 6 East, sec.
Do normal environmental conditions exist site? Y	es X No I If no, explain:
	Explain:
EGETATION	HYDROPHYTIC VEGETATION? Yes I
Dominant Species and Status Stratum	Rel. % Cover Dominant Species Ind. Status Stratum Rel. % Cover
1) Tracep N/C has	W 1 2 11
2) Bohir Face Land	23 6)
_	•
-	
4)	
Percentage of dominant species that are OBL, FA	CW, and/or FAC [excluding FAC-]:O/
Comments:	
The Average Court	WEST LVD STATE OF COVER V
	WETLAND HYDROLOGY? Yes C
	WETLAND HYDROLOGY? Yes U
Recorded Data: Yes 🗆 No 🔁 If yes,	
Recorded Data: Yes 🗆 No 🔁 If yes, (in.) Dep	oth to free water in pit: (in.) Depth to saturated soil: (in.
Recorded Data: Yes 🗆 No 🔁 If yes, (in.) Dep	
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water:} \) Depth of surface water: \(\text{Line of surface water:} \) Inundated \(\text{Depth Saturated in Secondary Indicators (2 or more required):} \)	oth to free water in pit: (in.) Depth to saturated soil: (in.) Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in the sediment Deposits Orainage Patterns Orainage Patterns Orainage Patterns Orainage Patterns Orai
Recorded Data: Yes 🗆 No 🗹 If yes,	oth ro free water in pit: (in.) Depth to saturated soil: (in.) Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in ter-stained Leaves Local Soil Survey Data FAC-Neutral Test Other
Recorded Data: Yes 🗆 No 🗹 If yes,	oth to free water in pit: (in.) Depth to saturated soil: (in.) Upper 12 in. Water Marks Drift Lines Sediment Deposits Drainage Patterns in the sediment Deposits Orainage Patterns Orainage Patterns Orainage Patterns Orainage Patterns Orai
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) [in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Inundated } \text{Water Comments: } \) [In. \(\text{Comments: } \) \(\text{Comments: } \)	oth to free water in pit:
Recorded Data: Yes □ No ☐ If yes,	oth to free water in pit:
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{In undated } \text{Saturated in } \) Secondary Indicators: \(\text{In undated } \text{In undated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Water Comments: } \) Water \(\text{Comments: } \) \(\text{And } \) \(\text{Comments: } \) \(\text{And } Co	oth to free water in pit:
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Inundated } \text{Water Comments: } \) As \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy}	oth to free water in pit:
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Inundated } \text{Water Comments: } \) As \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy}	oth to free water in pit: (in.) Depth to saturated soil: (in.) Upper 12 in. □ Water Marks □ Drift Lines □ Sediment Deposits □ Drainage Patterns inter-stained Leaves □ Local Soil Survey Data □ FAC-Neutral Test □ Other HYDRIC SOILS? Yes □ Normange Class: Confirm Map Type: Yes □ Normange
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Inundated } \text{Water Comments: } \) As \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy} \) \(\text{Asy} \) \(\text{Comments: } \) \(\text{Asy}	oth to free water in pit:
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Wata } \text{Comments: } \) (2.5) Comments: \(\text{And } \text{And } \text{And } \) (2.5) Series/Phase: \(\text{If } \text{If } \text{Q} \) Taxonomy [Subgroup]: \(\text{Inundated } \text{Upper 12 in. } \text{Upper 12 in. } \) Wata And Inclusions [Series/Phase]: \(\text{Depth } \text{Color } \) (3.6) Horizon \(\text{Matrix Color } \) (4.7)	Confirm Map Type: Yes Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma Colors Yes Mottle Color Mottle (Abunt/Contrast/Size) Texture. Concretions, Sm.
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Water Water Anneals in Upper 12 in. } \text{Water Water Anneals in Upper 12 in. } \text{Water Water Anneals in Upper 12 in. } \(\text{Water Anneals } \) OILS Series/Phase: \(\text{If } \sqrt{\text{O}} \) Taxonomy [Subgroup]: \(\text{Taxonomy (Subgroup]: } \) If History Indicators: \(\text{Subgroup]: } \) If History Indicators: \(\text{Subgroup]: } \) If History Indicators: \(\text{Subgroup]: } \) If the property Indicators: \(\text{Subgroup]: } \) If yes, \(\text{Inundated } \text{Saturated in } \) Indicators: \(\text{Subgroup]: } \) If yes, \(\text{Inundated } \text{Saturated in } \) Indicators: \(\text{Subgroup]: } \) If yes, \(Su	Confirm Map Type: Yes Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma Colors Yes Mottle Color Mottle (Abunt/Contrast/Size) Texture. Concretions, Sm.
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Wata } \text{Comments: } \) (2.5) Comments: \(\text{And } \text{And } \text{And } \) (2.5) Series/Phase: \(\text{If } \text{If } \text{Q} \) Taxonomy [Subgroup]: \(\text{Inundated } \text{Upper 12 in. } \text{Upper 12 in. } \) Wata And Inclusions [Series/Phase]: \(\text{Depth } \text{Color } \) (3.6) Horizon \(\text{Matrix Color } \) (4.7)	Confirm Map Type: Yes Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma Colors Yes Mottle Color Mottle (Abunt/Contrast/Size) Texture. Concretions, Sm.
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Wata } \text{Comments: } \) (2.5) Comments: \(\text{And } \text{And } \text{And } \) (2.5) Series/Phase: \(\text{If } \text{If } \text{Q} \) Taxonomy [Subgroup]: \(\text{Inundated } \text{Upper 12 in. } \text{Upper 12 in. } \) Wata And Inclusions [Series/Phase]: \(\text{Depth } \text{Color } \) (3.6) Horizon \(\text{Matrix Color } \) (4.7)	Confirm Map Type: Yes Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma Colors Yes Mottle Color Mottle (Abunt/Contrast/Size) Texture. Concretions, Sm.
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Wata } \text{Comments: } \) (2.5) Comments: \(\text{And } \text{And } \text{And } \) (2.5) Series/Phase: \(\text{If } \text{If } \text{Q} \) Taxonomy [Subgroup]: \(\text{Inundated } \text{Upper 12 in. } \text{Upper 12 in. } \) Wata And Inclusions [Series/Phase]: \(\text{Depth } \text{Color } \) (3.6) Horizon \(\text{Matrix Color } \) (4.7)	Confirm Map Type: Yes Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma Colors Yes Mottle Color Mottle (Abunt/Contrast/Size) Texture. Concretions, Sm.
Recorded Data: Yes \(\text{No} \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Wata } \text{Comments: } \) (2.5) Comments: \(\text{And } \text{And } \text{And } \) (2.5) Series/Phase: \(\text{If } \text{If } \text{Q} \) Taxonomy [Subgroup]: \(\text{Inundated } \text{Upper 12 in. } \text{Upper 12 in. } \) Wata And Inclusions [Series/Phase]: \(\text{Depth } \text{Color } \) (3.6) Horizon \(\text{Matrix Color } \) (4.7)	Confirm Map Type: Yes Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma Colors Yes Mottle Color Mottle (Abunt/Contrast/Size) Texture. Concretions, Sm.
Recorded Data: Yes \(\text{No } \) If yes, \(\text{Depth of surface water: } \) (in.) Depth of surface water: \(\text{Inundated } \text{Saturated in } \) Secondary Indicators: \(\text{Inundated } \text{Inundated } \text{Saturated in } \) Oxidized Root Channels in Upper 12 in. \(\text{Wata } \text{Comments: } \) As \(\text{Comments: } \)	Confirm Map Type: Yes Aquic Moisture Regime Reducing Conditions Gleyed/Low Chroma Colors Yes Mottle Color Mottle (Abunt/Contrast/Size) Texture. Concretions, Sm.

HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed Two comp Gier dis Bro har Lol mal Rum ai Ep: har Lum Evol	Actual Cover 60 5 25 5 5 5	Relative Cover	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (∑) == Species (Descending Order)	Relative Cover	100% Cumulative Cover	Indicator Status	- Dominants
		•		
TOTAL SUM (Σ) =	100%			 "

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ROUTINE WETLAND DELINEATION

Investigator(s): Community:A m/Fownship/Range:	K. Kuran annel C T. 10 Nor	Sample Point: m / R. Hent seess land th, R. 6 East	2.0
Community: A	T. 10 No.	As s land the R. G East	, sec. 17
n/Township/Range:	T. 10 No.	th, R. G East	, sec. 17
lly man			
ely in			
•	date 1		
•	white the off		
——— H	YDROPHYT	IC VEGETATION	2 Yes-EN
ominant Species	ind, Status	Stratum Rel. % Co	vet
			_
		•	
		HYDRIC SOILS?	Yes DY N
4 = 1 = 1	L		<u> </u>
•			
-	•		
		-	_
		•	
wome (waiming)	2011 43 63 15 6 T	Towns, Conces	one, people
	 -	<u></u>	
WETLAND / N	VATERS DE	TERMINATION?	Yes No
	ing FAC-]: (in.) Decks	WETLAN (in.) Depth to satura (ixs Drift Lines Sediment De I Soil Survey Data FAC-Neutra Practical Factors Ora Reducing Conditions Gley ing in Sandy Soils Listed on H	WETLAND HYDROLOGY? (in.) Depth to saturated soil: (ixs Drift Lines Sediment Deposits Drainage P I Soil Survey Data FAC-Neutral Test Other HYDRIC SOILS? Drainage Class: Property Confirm Map Type: Y Reducing Conditions Gleyed/Low Chroma Coing in Sandy Soils Listed on Hydric Soils List: On Hydric Soils List:

HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed Lo I mel The comps Annexis	Actual Cover 52 5	Relative Cover	COVER: Vegetation Bare Ground Rocks Other	<u> 5</u> 5
Eve als	<i>F</i>		TOTAL =	100%
TOTAL SUM (∑) == Species (Descending Order)	/05 Relative Cover	100% Cumulative Cover		minants
		-		
TOTAL SUM (∑) =	100%			

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ROUTINE WETLAND DELINEATION

	14	.1		Date: 2/6/			
Applicant/Owner:						<u> </u>	
County: Placer				lant Community:	Mund	Coness hand	
Quad(s): C.7-, Heights, CA					North, R. 66		
Do normal environments	al conditions ex	ist site? Yes 🛣?	vio□ lf no, ex	xplain:			
Atypical Situation? Yes	□ No) (Exp	olain:					
Is this a potential Proble	m Arca? Yes E	No 🗷 Explain	n:				
EGETATION					HYDROPI	HYTIC VEGETAT	ION? Yes □
Dominant Species	Ind. Status	Stratum Rei.	% Cover	Deminant Species			
1) Lolmul						<u> </u>	
2) Ave fut	NIL	4-76					
	•						
3)						<u> </u>	
4)			8)		-,	<u> </u>	
Percentage of dominant	species that are	OBL, FACW, an	d/or FAC [exc	oluding FAC-]:	<u> </u>	%	
Comments:							
				·			
DROLOGY					WETI	AND HYDROLO	GY? Yes 🗆
CHESTONIAN CONTRACTOR	urt (41 IT N/44						
	1						
Depth of surface water:	1 	(in.) Depth to fo	ce water in pit	::(i:	n.) Depth to s		
Depth of surface water:	1 	(in.) Depth to fo	ce water in pit	::(i:	n.) Depth to s		
Depth of surface water: Primary Indicators: D S Secondary Indicators (2	nundated 🖸 Sat	(in.) Depth to fo turated in Upper ed):	ee water in pit 12 in. 🛭 Wate	t:(i: er Marks □ Drift Li	n.) Depth to si ines 🗖 Sedimen	it Deposits 🛚 Drains	age Patterns in
Depth of surface water: Primary Indicators: Secondary Indicators (2) Oxidized Root Channe	nundated 🗅 Sat or more requir sls in Upper 12	(in.) Depth to for turated in Upper red): in. □ Water-stals	ce water in pit 12 in. 🖸 Wate ned Leaves 🖸	t:(it or Marks ☐ Drift Li Local Soil Survey	n.) Depth to sines 🖸 Sedimen Data 🖸 FAC-N	it Deposits 🗆 Drains	age Patterns in
Depth of surface water: Primary Indicators: Secondary Indicators (2) Oxidized Root Channe Comments:	nundated 🗅 Sat or more requir sls in Upper 12	(in.) Depth to for turated in Upper red): in. □ Water-stals	ce water in pit 12 in. 🖸 Wate ned Leaves 🖸	t:(it or Marks ☐ Drift Li Local Soil Survey	n.) Depth to sines 🖸 Sedimen Data 🖸 FAC-N	it Deposits 🗆 Drains	age Patterns in
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Depth of surface water: Primary Indicators: Secondary Indicators: Oxidized Root Channe Comments: P. 2 ILS Series/Phase: \(\psi \) F Saxonomy [Subgroup]: Histosol	nundated □ Sat or more requirels in Upper 12 / on 2 / dy / pedon □ Sufid in Surface Laye Alamo orizon M 7	(in.) Depth to forturated in Upper red): in. Water-stain handles Loam / Loam / Loam / Augustic Odor Aqui er in Sandy Soils Loan Loan Soils atrix Color 78 4/3	to S punchase Companies Son Chapman Son Chapman Companies Son Chap	ti	Depth to some of the solution	entral Test Other HYDRIC SO Drainage Class: Confirm Map Type Gleyed/Low Chromon Hydric Soils List On Hydric Soils	LS? Yes Contact of the Contact of th
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HERBACEOUS COVER	/ DOMINANCE WORK SHEE
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<u> </u>	_		İ	
Species Observed	Actual Cover	Relative Cover	COVER: Vegetation	<u>.95</u>
Are fit	Zo	ر درح	Bare Ground	
Bro W	15	15	Rocks	
Vic spe	5	5	Other	<u></u>
Har mur	/2	/3	TQTAL =	100%
<u> </u>			,,,,,,	
Eve slo	25	25		
TOTAL SUM (Σ)	= /20	100%		
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover —	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants

TOTAL SUM (Σ) = 100% .

ECORP Consulting, Inc.

ROUTINE WETLAND DELINEATION

Project/Site: PFE 14	4 - (Date:		•	
Applicant/Owner: County			Field Investigator(s):			
County: Placer			Plant Community:	Annoal	Consta	-d
Quad(s): Citras Heigs	4+s, CA		Section/Township/Rar	ige: 7. 10 A	Jorth R.	6 East, sec. 1
De normal environmental conditi	ons exist site? Yes	_			•	
Atypical Situation? Yes 🗆 No.						
Is this a potential Problem Area?						
EGETATION				HYDROPHY	YTIC VEGET	ATION? Yes
Dominant Species Ind. St	tatus Stratum	Rel. % Cover	Dominant Species	Ind. Status	_	Rel. % Cover
1) bol and Fac						
2) Tax car 1/6		~				
· · · · · · · · · · · · · · · · · · ·						
3)						
4)						
Percentage of dominant species th	at are OBL, FACW	, and/or FAC (ex	cluding FAC-]:	= 5	ت س_%	
Comments:						
YDROLOGY ———	<u> </u>			- WETLA	ND HYDRO	LOCV? Yes (1
·					ND HYDRO	LOGY? Yes 🔾
Recorded Data: Yes 🗆 No 🗗 If y	es,					
Recorded Data: Yes O No of If y	es,(in.) Depth	to free water in pit	t:(in.)	Depth to sate	urated soil:	(in.)
Recorded Data: Yes No Wiffy Depth of surface water: Primary Indicators: I Inundated	es,(in.) Depth	to free water in pit	t:(in.)	Depth to sate	urated soil:	(in.)
Recorded Data: Yes No 11 If y Depth of surface water. Primary Indicators: I inundated Secondary Indicators (2 or more	es,(in.) Depth Saturated in Up required):	to free water in pit per 12 in. 🗆 Wate	t: (in.) :r Marks 🖸 Drift Line	Depth to sate	urated soil:	aipage Partems in '
Recorded Data: Yes No laif y Depth of surface water. Primary Indicators: I Inundated Secondary Indicators (2 or more) Oxidized Root Channels in Upp	es,(in.) Depth Saturated in Up required): oer 12 in. Water-	to free water in pit per 12 in. Water Stained Leaves	t:(in.) r Marks 🖸 Drift Line Local Soil Survey Da	Depth to sate Sediment I	urated soif: Deposits 🗖 Dr	(in.) ainage Parterns in ther
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Recorded Data: Yes \(\) No \(\) If y Depth of surface water. Primary Indicators: \(\) Inundated Secondary Indicators (2 or more) Oxidized Root Channels in Upp Comments: \(\) \(es,(in.) Depth Saturated in Up required): oer 12 in. Water	to free water in pit per 12 in. Water Stained Leaves / to 8 por / to 9 p	te(in.) Tapic Darix regime Reducing Correcting in Sandy Soi	Depth to sate Sediment I PAC-Neu A Grand Conditions Granditions Granditions Is Granditions Granditions	Deposits Dep	(in.) ainage Parterns in ther SOILS? Yes Yes No Type: Yes No Toma Colors Co List Other Dils List: Yes Yes
Recorded Data: Yes \(\) No \(\) If y Depth of surface water. Primary Indicators: \(\) Inundated Secondary Indicators (2 or more) Oxidized Root Channels in Upp Comments: \(\) \(es,(in.) Depth Saturated in Up required): oer 12 in. Water	to free water in pit per 12 in. Water Stained Leaves / to 8 por / to 9 p	te(in.) Tapic Darix regime Reducing Correcting in Sandy Soi	Depth to sate Sediment I PAC-Neu A Grand Conditions Granditions Granditions Is Granditions Granditions	Deposits Dep	(in.) ainage Parterns in ther SOILS? Yes Yes No Type: Yes No Toma Colors Co List Other Dils List: Yes Yes
Recorded Data: Yes \(\) No \(\) If y Depth of surface water: Primary Indicators: \(\) Inundated Secondary Indicators (2 or more) Oxidized Root Channels in Upp Comments: Very 3 \(\) (1000) OTHS Series/Phase: \(\) Ho \(\) Adv, \(\) Taxonomy [Subgroup]: \(\) Fixe \(\) (1000) Histosol \(\) Histic Epipedon \(\) High Organic Content in Surface inclusions [Series/Phase]: \(\) Horizon O \(\) 1 \(\) Horizon	es,(in.) Depth Saturated in Up required): oer 12 in. Water	to free water in pit per 12 in. Water Stained Leaves / to 8 por / to 9 p	te(in.) Tapic Darix regime Reducing Correcting in Sandy Soi	Depth to sate Sediment I PAC-Neu A Grand Conditions Granditions Granditions Is Granditions Granditions	Deposits Dep	(in.) ainage Parterns in ther SOILS? Yes Yes No Type: Yes No Toma Colors Co List Other Dils List: Yes Yes
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HERBACEOUS COVER / DOMINANCE WORK SHEET

Species Observed	Actual Cover	Relative Cover	<u>COVER:</u>	
Lo I mul	مح	50	Vegetation	<u> </u>
The conf	35	3 \$	Bare Ground	
Luc ser	5	ς	Rocks	-
Ger dis	2	٠	Other	
Myn CTi	<u></u>	5	TOTAL =	100%
	-		ļ	
	<u> </u>			
			İ	
			1	
	<u> </u>			
<u> </u>		<u> </u>		
	·			
				•
	,			
TOTAL SUM (Σ)	=/\$0	100%	1	
····		 		
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants

TOTAL SUM (Σ) = 100%

APPENDIX B

Plant List

P.F.E. 14 — Wetland Delineation Plants Observed at Data Points

Abbr.	Scientific Name	Common Name	Indicator Status
AVE FAT	Avena fatua	Wild oat	N/L
BRO HCR	Bromus hordeaceus	Soft brome	FACU-
CEN SOL	Centaurea solstitialis	Yellow star-thistle	N/L
CYN DAC	Cynodon dactylon	Bermuda grass	. FAC
CYP ERA	Cyperus eragrostis	Tall flatsedge	FACW
EPI BRA	Epilobium brachycarpum	Panicled willow-herb	UPL
EUC GLO	Eucalyptus globulus	Blue gum	N/L
GER DIS	Geranium dissectum	Cut-leaved geranium	N/L
HOR MUR	Hordeum murinum	Barley	NI
LAC SER	Lactuca serriola	Prickly lettuce	FAC
LOL MUL	Lollum multiflorum	Ryegrass	FAC*
MEN SPI	Mentha spicata	Spearmint	OBL
PAS DIL	Paspalum dilatatum	Dallis grass	FAC
PIP MIL	Piptotherum milliaceum	Smilo grass	N/L
RAN BON	Ranunculus bonariensis	Carter's buttercup	OBL
RUM CRI	Rumex crispus	Curly dock	FACW-
TAE CAP	Taeniatherum caput-medusae	Medusahead grass	N/L
TRI spe.	Trifolium species	Clover	N/L
VIC spe.	Vicia species	Vetch	

Indicator Status Codes

OBL = Obligate Wetland; occur a/most always (estimated probability >99%) under natural conditions in wetlands.

FACW = Facultative Wetland; usually occur in wetlands (estimated probability 67%-99%) under natural conditions in wetlands.

FAC = Facultative; equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).

FACU = Facultative Upland; usually occur in non-wetlands (estimated probability 67%-99%).

UPL = Obligate Upland; occur almost always (estimated probability >99%) in non-wetlands in the region specified.

N/L = Not Listed.

NI = No indicator was recorded for those species for which insufficient information was available to determine a status.

-- = May or may not occur in wetlands depending upon species.

A positive (+) sign indicates a frequency toward the higher (more frequently found in wetlands) end of the facultative categories. A negative (-) sign indicates a frequency toward the lower (less frequently found in wetlands) end of the facultative categories. An asterisk (*) indicates a tentative assignment based upon limited information or conflicting review.

APPENDIX C

Wetland Delineation

NOT INCLUDED

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WETLAND DELINEATION

For

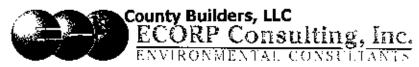
ALMOND RANCH

PLACER COUNTY, CALIFORNIA

DRAFT

September 24, 2003

Prepared for:



WETLAND DELINEATION

CONTENTS

ALMOND RANCH

INTRODUCTION	1
SURVEY METHODOLOGY	
EXISTING SITE CONDITIONS	3
WATERS OF THE U.S	3
Wetlands	4
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CONCLUSION	
REFERENCES	
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Figure 1 – Project Site and Vicinity

Figure 2 - Wetland Delineation

LIST OF ATTACHMENTS

Attachment A - Wetland Delineation Data Sheets

Attachment B — Plant List

Attachment C - Wetland Delineation Map

INTRODUCTION

On behalf of County Builders, LLC, ECORP Consulting, Inc. has conducted a wetland delineation. for Almond Ranch, an additional parcel located south and west of the original PFE 14 site. This site is located in unincorporated western Placer County, California. Almond Ranch is a 12± acre. undeveloped parcel west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes fronting Eigin Hills Way, on the east and west and north by undeveloped lands and rural residences. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U.S. Department of the Interior, Geological Survey 1992) (Figure 1- Project Site and Vicinity Map).

APPLICANT:

AGENT:

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ECORP Consulting, Inc.

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(916) 782-9134 Fax:

SURVEY METHODOLOGY

The wetland delineation was conducted on July 9^{th} and 10^{th} , 2003, during which time, biologist Reed Hentze walked and inspected the entire site to determine the extent of potential waters of the U.S. within the project site. This wetland delineation was conducted in accordance with the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987). Wetland boundaries and a number of three parameter data points were mapped and their Global Positioning System (GPS) coordinates were logged and recorded with a Trimble XTR unit. A black and white aerial photograph (1"=100,' flown on April 4, 2000) was utilized to assist with mapping and ground-truthing. A *Munsell Soil Color Chart* (Kollmorgen Instruments Corp. 1990) was used to identify hydric soils in the field, and the Jepson Manual (Hickman 1994) was used for plant identification.

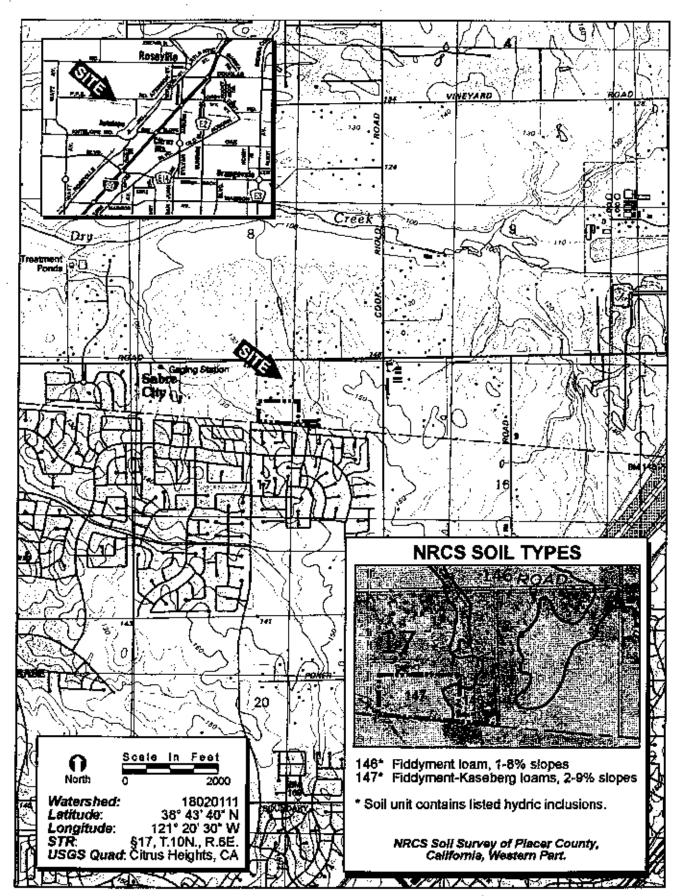


FIGURE 1. Project Site and Vicinity

The survey was conducted at the end of the growing season and many plant species had flowered, and most annual species had already declined.

EXISTING SITE CONDITIONS

The Almond Ranch site is currently comprised of non-native annual grassland used as a horse pasture, annual grassland, and a rural residence with associated outbuildings. The site topography is gently rolling, and is situated at an elevation of approximately 140 feet above mean sea level. The annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*). Scattered trees on-site include blue gum (*Eucalyptus globulus*) and blue oak (*Quercus douglasii*).

According to the *Soil Survey of Placer County, California, Western Part* two soil units have been mapped for the site, (146) Fiddyment loam, 1 to 8 percent slopes and (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes, (U.S. Department of Agriculture, Soil Conservation Service 1980).

WATERS OF THE U.S.

Potentially jurisdictional waters of the U.S. mapped total 0.258 acre and are comprised of two seasonal wetland swales (0.247 acre) and an ephemeral drainage (0.011 acre). Three-parameter wetland delineation data were collected within wetlands and adjacent upland areas throughout the site. The data sheets have been included as Appendix A, and a list of plant species observed at the data collection points is included as Appendix B. The wetland delineation is presented as Figure 2 and in Appendix C.



2002-223 Almond Resert

Wetlands

The seasonal wetland swale flows in the east to west direction and is largely fed by natural runoff from existing uplands to the northeast portion of the property. This swale flows into an ill-defined topographic basin in the southwestern corner of the site. The seasonal wetland has been mapped in this area. This seasonal wetland is comprised of herbaceous hydrophytic plants with a few scattered black willows (*Salix gooddingii*), and interspersed blue gum eucalyptus (*Eucalyptus globulus*). Ground cover was predominantly dead eucalyptus leaves with some live vegetation consisting of both hydrophytic (i.e., facultative species) and upland species such as ryegrass (*Lolium multiflorum*), curly dock (*Rumex crispus*), purple needle grass (*Nassella pulchra*), and morning glory (*Convolvulus arvensis*).

INTERSTATE OR FOREIGN COMMERCE

The wetlands mapped on-site are within the Dry Creek watershed. Dry Creek is located several hundred yards to the north of the site. Due to the rolling topography of the site, the on-site seasonal wetland and wetland swale are tributary to Dry Creek. Dry Creek eventually flows into the Sacramento River, which is navigable water. Thus, these waters should be considered tributary and/or adjacent to a documented Water of a U.S. and would therefore be subject to interstate and/or foreign commerce.

CONCLUSION

Potentially jurisdictional waters of the U.S. mapped total 0.247 acre consisting of two seasonal wetland swales and an ephemeral drainage. Upon verification of this wetland delineation by the Corps of Engineers, any impact to this feature would require permitting pursuant to Section 404 and 401 of the federal Clean Water Act.

REFERENCES

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- U.S. Department of Agriculture, Soil Conservation Service. 1980. Soil Survey of Placer County Western Part, California. U.S. Department of Agriculture, Soil Conservation Service. Davis, California.
- U.S. Department of the Interior, Geological Survey. 1992. "Citrus Heights, California" 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.

LIST OF APPENDICES

Appendix A – Wetland Delineation Data Sheets

Appendix B – Plant List

Appendix C – Wetland Delineation

APPENDIX A

Wetland Delineation Data Sheets

ECORP Consulting, Inc.

ROUTINE WETLAND DELINEATION

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ECORP Consulting, Inc. ENVIRONMENTAL CONSULTANTS

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HOL VIR	44 23	77	N/L)	
HOL VIR	44 23	77	N/L)	
HOL VIR	44 23	77	N/L)	
HOL VIR	44 23	77	N/L)	
HOL VIR	44 23	77	N/L)	

ECORP Consulting, Inc. ROUTINE WETLAND DELINEATION ENVIRONMENTAL CONSULTANTS Project/Site: ALMOND RANK H Date: 07/09/03 Sample Point 003 - Worth Applicant/Owner: M. J. Courtel, Court Bullows Field investigator(s): F. FENTZE PLACER State: CA Plant Community: ____ Quad(s): Section/Township/Range: 17/54 Do normal environmental conditions exist site? Yes 🖾 No 🖵 If no, explain: ______ Atypical Situation? Yes 🚨 No 🕼 Explain: Is this a potential Problem Area? Yes W No D Explain: URBAN INSTITUTE FUND COM VEGETATION -HYDROPHYTIC VEGETATION? Yes X No I Dominant Species Ind. Status Stratum Rel. % Cover Dominant Species Ind. Status Stratum Ref. % Cover FAC+ Horis 91 1) HOR MAR Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: HYDROLOGY -WETLAND HYDROLOGY? Yes Yo ロ Recorded Data: Yes 🗆 No 🖼 If yes, _____ Depth of surface water: _____ (in.) Depth to free water in pir. _____ (in.) Depth to saturated soil: _____ (in.) Primary Indicators: Inundated In Saturated in Upper 12 in. Water Marks In Drift Lines I Sediment Deposits I Drainage Patterns in Wetlands Secondary Indicators (2 or more required): 🗖 Oxidized Root Channels in Upper 12 in. 🔁 Water-stained Leaves 🗖 Local Soil Survey Data 🗖 FAC-Neutral Test 🗖 Other 🚧 🖰 December DRAWS SW THEOLOG THE SMILE SOILS : HYDRIC SOILS? Y≈s 🛎 № 🛘 Drainege Class: We2- Drawes Taxonomy [Subgroup]: LOAMY MIXED THERMIC SHOULD TYPIC DURACHEETS Confirm Map Type: Yes You u 🗆 Histosol 🔁 Histic Epipedon 🗷 Suñdic Odor 🖾 Aquic Moisture Regime 🚨 Reducing Conditions 🖾 Gleyed/Low Chroma Colors 🚨 Concretions 🖰 High Organic Content in Surface Layer in Sendy Soils 🗖 Organic Streaking in Sandy Soils 🖼 Listed on Hydric Soils List 🚨 Other ___ Inclusions [Series/Phase]: ALAMO SOILS IN DEPRESSIONS On Hydric Scils List: Yes 🗗 No 🚨 Depth (in.) Horizon Matrix Color Mottle Color Texture, Concretions, Structure Mottle (Ahand/Contrast/Size). A 1054R4/1

Comments:

DECISION *

General comments:

Rationale: THERE ON SOLLS VES HTI ROLDGY

Wetland Type: Sedimer Wiremo Swape Converget @2003 ECORP Consulting, Inc.

WETLAND / WATERS DETERMINATION? Yes Z No □

HERBACEOUS COVER	/ DOMINANCE WORK SHEE
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Species Observed HOR MAR HI CON ARY HI		Relative Cover	COVER: Vegetation Bare Ground Rocks Other TOTAL =	
TOTAL SUM (Σ) =		100%		
Species (Descending Order)	Relative Cover	Campiative Cover	Indicator Status	<u>Dominants</u>
HER MAR	9/	<u>9</u> /	<u> FAC</u> +	
CON 100V	<u> </u>			
				· · · · · · · · · · · · · · · · · · ·
				
				·

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ROUTINE WETLAND DELINEATION

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-	 			_		/				
Project/Site: ALF		_			07/09/					
Applicant/Owner: /7/2.	,				vestigator(s):	_ _		75		
County: PLACE				_	ommunity; _					
Quad(s):	US <u>Agrica</u>	<u> 75</u>		Section	/Township/Ra	nge:	<u> 17 / 1</u>	2N /6	£	
Do normal environments										
Atypical Situation? Yes										
Is this a potential Proble	m Area? Yeş 🕻	⊒ No 🖙 Ex	ріаіл:	- .						
EGETATION -					 [нурк	түнчо	IC VEGET	'ATION? '	/es □ No
Dominant Species	Inc. Starus	Stratum .	Rel. % Cover	Dog	ninant Species] <u>nd.</u> Si	aws	Stranin F	tel. % Cover	
1) TAE CAP	N/L	HERE	_ 2 3	5)						
2) HEMPUN	FAC	ALLE	23							
3)										
-					- -					
,						, 				
Percentage of dominant s										
Comments: <u>ARWA</u>	115-0€	Profession	<u> </u>	Ti dat i je jeda	7 5 4 X	FUNJ 600	r Fr	or 70	54.	
YDROLOGY Recorded Data: Yes N Depth of surface water:		(in.) Depth t	o free water it	n pic	(in.)	Depth :	o saturaz	ed soil:		(in.)
Recorded Data: Yes Solon Depth of surface water: _ Primary Indicators: Solon Secondary Indicators (2) Solon Oxidized Root Channe	nundated Sar or more required	(in.) Depth t wrated in Upp ed): in. • Water-	o free water it per 12 in. 🗅 V	n pic Vater Mark	(in.) s Drift Line Soil Survey Da	Depth:	o saturan nent Dep	ed soil: osits 🖸 Dra Test 📮 Ott	ninage Patter	(in.) ns in Wet
Recorded Data: Yes © N Depth of surface water: _ Primary Indicators: © In Secondary Indicators (2)	nundated Sar or more required	(in.) Depth t wrated in Upp ed): in. • Water-	o free water it per 12 in. 🗅 V	n pic Vater Mark	(in.) s 🖵 Drift Line	Depth:	o saturan nemt Dep	ed soil: osits 🛭 Dra Test 🗆 Oth	ninage Patter	(in.) ns in Wet
Recorded Data: Yes © No Depth of surface water: Primary Indicators: © In Secondary Indicators (2) © Oxidized Root Channe Comments: VP px	nundated ☐ Sar or more requireds in Upper 12 in Salaya Fine Lorenty Section ☐ Sufficient Surface Layer ALAyaa	in. Depth (nurated in United): in. Water-to- SATE CONTROL To Odor A r in Sandy So	offree water in per 12 in. D vestioned Leaves Per 12 in. D vestioned Leaves Research Telephone Telephone quie Moisture siis D Organi	Nater Mark Vater Mark Local: YALL DA Regime Regime Streaking	(in.) Soil Survey Da GMS Reducing Co in Sandy Soil	Depth : S	o saturate nent Dep -Neutral Drain Conf	ed soil:	SOILS? Your Yes Corns Colors its List: Yes	(in.) Desire S I No October S II No
Recorded Data: Yes No Depth of surface water: Primary Indicators: In Insecondary Indicators (2) Oxidized Root Channe Comments: ILS Geries/Phase: /47 Taxonomy (Subgroup): High Organic Content inclusions (Series/Phase): Lepth (in.)	nundated ☐ Sar or more required is in Upper 12 in Sar Fine - Lorenty Forter mile orden ☐ Suffd in Surface Laye At Area mizon Mi	in. Depth (nurated in United): in. Water-to- Marin Sandy So	offree water in per 12 in. D vestioned Leaves Per 12 in. D vestioned Leaves Research Telephone Telephone quie Moisture siis D Organi	Nater Mark Vater Mark Local: Your DA Regime I c Streaking	(in.) Soil Survey Da GMS Reducing Co in Sandy Soil	Depth : S	o saturate nent Dep -Neutral Drain Conf	ed soil:	SORLS? Your Yes Come Colors ist Other	(in.) Desire S I No October S II No
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Recorded Data: Yes © No Depth of surface water: Primary Indicators: © In Secondary Indicators (2) Oxidized Root Channe Comments: VP: pm Exercise/Phase: /47 Caxonomy (Subgroup): Histosol © Histo Epip High Organic Content inclusions [Series/Phase]: Lepth (in.) Ho	nundated Sar or more required in Surface Layer A 7	in.) Depth (curated in United): in. Water-to- Marin Sandy So Solve Sarix Color Solve Sarix Color Solve Sarix Color	offree water in per 12 in, D votes in the per 12 in, D votes in the period of the peri	Nater Mark Salar Local: Local: Annual DAA Regime Color Color	(in.) Soil Survey Da Soil Survey Da Reducing Co in Sandy Soil	Depth: Sedin Table Sedin Tab	o saturate nent Dep -Neutral Drain Conf	ed soil:	SOILS? Your Yes Corns Colors its List: Yes	(in.) Desire S I No October S II No
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Species Observed	Actual Cover	Relative Cover	COVER:	
TAE CAP	30	33	Vegetation	_60_
RUM ACE	10		Bare Ground	40
ERE SET	/0	<i>_1</i> /	Rocks	ø
HEM PUN	20	<i>2</i> 3	Other	
HEM FIT	10		TOTAL =	100%
LUL MUL				
_ 			.	
			-	
				
	. -			
. —				
TOTAL SUM (Σ) =	90	100%	•	
pecies (Descending Order) Tag CAP	Relative Cover	<u>Cumulative Cover</u> 33		<u>inants</u>
	23	<u></u>	r .	 ×
HEM PUN _	//	<u></u>	N/L	
ERE SET _	· · · · · · · · · · · · · · · · · · ·			
Dura Art	11	74	_FAC	
 -	·	78	·	
 -	11	89	FAC U	
HOM EIT	·		·	
HOM EIT	1/	89	FAC U	
HOM EIT	1/	89	FAC U	
HOM EIT	1/	89	FAC U	
HOM EIT	1/	89	FAC U	
HOM EIT	1/	89	FAC U	
HOM ETT	1/	89	FAC U	
HOM ETT	1/	89	FAC U	
RUM ACÉ HOM EIT LOC MUL	1/	89	FAC U	

ECORP Consulting, Inc. ENVIRONMENTAL CONSULTANTS ROUTINE WETLAND DELINEATION

Project/Site:									وفتريه
Applicant/Owner. /7/6	J COVETER	COLUMN	BUILDINGS	Field Inv	estigator(s);	R A	ENTZE	Point <u>Co</u> S	 -
County:	CER_	Scare:	_CA	Plant Cor	antunity:	وجدروا والملاقيم	60 40	C. m. in	
Quad(s):	incus H	<u> 416475</u>		Section/T	ovenshi=/D		7 /1- 44	1, -	_
Do normal environment	al conditions e	xist site? Ye	s D21√Vo CI ff	ID evoluis	омамир/кац	ge:/	+ / 10N /	<u> </u>	
Atypical Situation? Ye	s □ No □ Ēx	рівіл:	· · ·	nu, expram,					
Is this a potential Probl	em Area? Yes (No EZ E	xpiain;				_	···	
	_		·				·	·	_
EGETATION ——						HYDROPH	YTIC YEG	ETATION? Yes	Q N
<u>Dominant Soectes</u>	<u>ind. Status</u>		<u>Rel. % Cover</u>	<u>Domin</u>	ant Species	ind. Status	Stratum	Rel. % Cover	
1) HETT PUN				5)				_	
2) TPE CAP	N/ <u>L</u>	HECK	<u>3</u> 3_	6)	-				
3)									
4)					_				
Percentage of dominant		_			1/				
						 -	<u>50 %</u>		
Comments:			<u></u>						
ecorded Data: Yes D N epth of surface water: rimary Indicators: Q Is	lo 🗹 if yes,	in.) Depth wated in Up	o free water in	в рі г.	(in.) Drift Lines (Depth to sate	rated soil:	OLOGY? Yes (in.)	
BROLOGY ecorded Data: Yes [1] epth of surface water: rimary Indicators: [2] econdary Indicators (2) I Oxidized Root Channe currents: Power	lo lif yes,() nundated la Sam ar more require is in Upper 12 in	in.) Depth urated in Up ed): n. □ Water-	to free water in per 12 in. 🗆 V	n pir Water Marks []	Drift Lines (Stovey Dam	Depth to sain Sediment I	rated soil:	(in.) Drainage Panerns in	ı We
ecorded Data: Yes []) epth of surface water: _ rimary Indicators: [] In econdary Indicators (2)	lo lif yes,() nundated la Sam ar more require is in Upper 12 in	in.) Depth urated in Up ed): n. □ Water-	to free water in per 12 in. 🗆 V	n pir Water Marks []	Drift Lines (Stovey Dam	Depth to sain Sediment I FAC-Net	rated soil:	(in.) Drainage Pareins in Other Drainage Pareins in	ı We
ecorded Data: Yes [1] repth of surface water: rimary Indicators: [2] Indicators (2) I Oxidized Root Channe cumments: Power Power	io lif yes,	in.) Depth in Up and in U	to free water in per 12 in. □ V stained Leaver Starte	n pir: Water Marks □ s □ Locai Soil	Drift Lines U Survey Dara ディアータニ ぶん	Depth to sain Sediment I FAC-Net	rated soil:	(in.) Orainage Panerns in Other Other SORLS? Yes	ı We
eprin of surface water: rimary Indicators: Q In econdary Indicators (2) I Oxidized Root Channe currents: Powr Vo Chan LS eries/Phase: /47	nundared San Sir More require Is in Upper 12 in Locares Sir Sar 16	in.) Depth urated in Up ad): n. Water-Acoust 24 2 72	To free water in per 12 in. □ V stained Leaves Score Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Cons	n pit: Water Marks □ S □ Local Soil	Drift Lines (Survey Dam **** ### **** ### ****	Depth to sam Sediment I FAC-Net SIE O	rated soil:	(in.) Orainage Panerus in Other SORLS? Yes SORLS? Yes Sort Orainage	No
ecorded Data: Yes 17 A septh of surface water: Primary Indicators: 12 In econdary Indicators (2) In Oxidized Root Channel comments: Property LS aries/Phase: 147 Econdary (Subgroup):	in the second of	in.) Depth water in Up add: n. Water-Accorded to the second of the se	Stained Leaves Stained Leaves	Topin Water Marks □ S □ Local Soil Howe □ Figure □ Fi	Survey Dara	Depth to sam	rated soil:	(in.) Orainage Panerns in Other ORAINA PRECION SOILS? Yes Type: Yes No	No
ecorded Data: Yes [1] A septh of surface water: Frimary Indicators: [2] In econdary Indicators (2] In Oxidized Root Channel outments: Form F. LS aries/Phase: [4] Exception [2] Exception [3] Exception [4] Exception [5] Exception [6] Except	iundated San Sar more require is in Upper 12 in Sar Sar - 12 Sar - 12	in.) Depth urated in Up ad): o. Water-Accord Accord	stained Leaves Stained Leaves	Nater Marks □ S □ Local Soil House France Total	Survey Dam Strice Description Survey Dam	Depth to sain Sediment I FAC-Net FAC-Net D Citions Glider	rated soil:	(in.) Orange Parterns in Other SORLS? Yes Type: Yes Notional Colors Colors	No No
ecorded Data: Yes Data epth of surface water: rimary Indicators: Q In econdary Indicators: Q I Oxidized Root Channe cumments: Power LS eries/Phase: 147 exonomy (Suogroup): Histosol Q Histic Epip High Organic Content i	andared Samer sequire is in Upper 12 in 20007000 200707000 colon Surface Layer	in.) Depth in area in Up ad): n. Water-At-At-At-At-At-At-At-At-At-At-At-At-At-	stained Leaves SLOCE MSEBURGE MENTIC S quic Moisture oils © Organic	Water Marks **Local Soil **House ** **Local Soil **House ** **Transport **Regime ** **Regime ** Regime ** Regime ** **C Streaking in	Survey Dara	Depth to san Sediment I FAC-Net FAC-Net FAC-Net Global Chimical rated soil:	(in.) Other SORLS? Yes Type: Yes Notiona Colors Char	No No	
ecorded Data: Yes Data eppth of surface water: rimary Indicators: Q In econdary Indicators: Q I Oxidized Root Channe comments: Power LS eries/Phase: 147 exonomy (Subgroup): Histosol Q Histic Epip High Organic Content in clusions [Series/Phase]:	industrial Samurar more required is in Upper 12 in 2007 FTE SAMUE - SA	in.) Depth in area in Up ad): n. Water-At-At-At-At-At-At-At-At-At-At-At-At-At-	stained Leaves Stained Leaves	Water Marks **Local Soil **House ** **Local Soil **House ** **Transport **Regime ** **Re	Survey Dam Survey	Depth to san Sediment I FAC-Net FAC-Net FAC-Net Girions G	rated soil:	(in.) Orainage Panerus in Other SORLS? Yes Type: Yes No Iroma Colors Co	No No
ecorded Data: Yes Data epth of surface water: rimary Indicators: Q In econdary Indicators: Q I Oxidized Root Channe cumments: Power LS eries/Phase: 147 exonomy (Suogroup): History Quantic Content in clusions [Series/Phase]: eth (in.) Ho	andared Samer sequire Is in Upper 12 in Locores Samer Samer sequire Samer	in.) Depth urated in Up ad): o. Water-Attack Attack Attack CONT - K COdor A int Sandy So	stained Leaves Stained Leaves	Water Marks **D Local Soil **House ** **Free Sine ** **Regime ** **Regime ** **Color ** **Color ** **Transport ** **Color ** **Transport ** **Color ** **Transport ** **Color ** **Transport ** **Color ** **Transport ** **Color ** **Transport ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** **Color ** ** **Color ** ** **Color ** ** ** ** ** ** ** ** ** **	Survey Data For 92 Survey Data For 92 Survey Data For 92 Survey Data Survey Data Survey Data Survey Data Month (Abunda	Depth to san Sediment I FAC-Net FAC-Net FAC-Net Girions G	rated soil:	(in.) Other SORLS? Yes Type: Yes Notiona Colors Char	No No
ecorded Data: Yes Data epth of surface water: rimary Indicators: Q In econdary Indicators: (2) I Oxidized Root Channe cumments: Power LS eries/Phase: 147 exonomy (Subgroup): History Quantic Content in thusions [Series/Phase]: eth (in.) Ho	andared Samer sequire Is in Upper 12 in Locores Samer Samer sequire Samer	in.) Depth irrared in Up ad): n. Water-Actif 26 77 8 8 77 8 77 8 77 8 77 8 77 8 77 8	stained Leaves Stained Leaves	Water Marks Value Marks Local Soil Model Model Model Model Model Model Model Model Model Model Model	Survey Dam Survey	Depth to san Sediment I FAC-Net FAC-Net FAC-Net Girions G	rated soil:	(in.) Orainage Panerus in Other SORLS? Yes Type: Yes No Iroma Colors Co	No No
ecorded Data: Yes Data epth of surface water: rimary Indicators: Q In econdary Indicators: (2) I Oxidized Root Channe cumments: Power LS eries/Phase: 147 exonomy (Subgroup): History Quantic Content in thusions [Series/Phase]: eth (in.) Ho	andared Samer sequire Is in Upper 12 in Locores Samer Samer sequire Samer	in.) Depth irrared in Up ad): n. Water-Actif 26 77 8 77 8 77 8 77 8 77 8 77 8 77 8 7	stained Leaves Stained Leaves	Water Marks Value Marks Local Soil Model Model Model Model Model Model Model Model Model Model Model	Survey Data For 92 Survey Data For 92 Survey Data For 92 Survey Data Survey Data Survey Data Survey Data Month (Abunda	Depth to san Sediment I FAC-Net FAC-Net FAC-Net Girions G	rated soil:	(in.) Orainage Panerus in Other SORLS? Yes Type: Yes No Iroma Colors Co	No No
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ecorded Data: Yes Data epth of surface water: rimary Indicators: Q In econdary Indicators: (2) I Oxidized Root Channe cumments: Power LS eries/Phase: 147 exonomy (Subgroup): History Quantic Content in thusions [Series/Phase]: eth (in.) Ho	andared Samer sequire Is in Upper 12 in Locores Samer Samer sequire Samer	in.) Depth irrared in Up ad): n. Water-Actif 26 77 8 77 8 77 8 77 8 77 8 77 8 77 8 7	stained Leaves Stained Leaves	Water Marks Value Marks Local Soil Model Model Model Model Model Model Model Model Model Model Model	Survey Data For 92 Survey Data For 92 Survey Data For 92 Survey Data Survey Data Survey Data Survey Data Month (Abunda	Depth to sam Sediment I FAC-Net FAC-Net FAC-Net Girions G	rated soil:	(in.) Orainage Panerus in Other SORLS? Yes Type: Yes No Iroma Colors Co	No No
ecorded Data: Yes Data repth of surface water: rimary Indicators: Q In econdary Indicators: (2) I Oxidized Root Channe comments: Power LS ries/Phase: // 7 Exonomy (Subgroup): // Histosol Q Histic Epip High Organic Content in clusions [Series/Phase]: eth (in.) Ho	andared Samer sequire Is in Upper 12 in Locores Samer Samer sequire Samer	in.) Depth irrared in Up ad): n. Water-Actif 26 77 8 77 8 77 8 77 8 77 8 77 8 77 8 7	stained Leaves Stained Leaves	Water Marks Valer Marks Local Soil House Regime Regime Recording in	Survey Dara	Depth to sain Sediment I FAC-Net FAC-Net Contrast/Size)	rated soil:	(in.) Orange Patterns in Other SORLS? Yes Type: Yes No Broma Colors Colist Other Colist Controllors, Shuss	No No
ecorded Data: Yes Data epth of surface water: rimary Indicators: Q In econdary Indicators: Q I Oxidized Root Channe comments: Power LS eries/Phase: // 7 exonomy (Subgroup): Histosol Q Histic Epip High Organic Content in clusions [Series/Phase]: eth (in.) Ho 6.0	andared Samer sequire Is in Upper 12 in Locores Samer Samer sequire Samer	in.) Depth water of Water of Color and Activity of Color and Activ	stained Leaves Stained Leaves	Water Marks Valer Marks Local Soil House Regime Regime Recording in	Survey Dara	Depth to sain Sediment I FAC-Net FAC-Net Contrast/Size)	rated soil:	(in.) Orainage Panerus in Other SORLS? Yes Type: Yes No Iroma Colors Co	No No

HERBACEOUS COVER / DOMINANCE WORK SHE

			1 COVER / DOM		_
Species Observed	Actual Cover	Relative Cover	COVER:		
LOL MUL	10	<u> </u>	Vegetation	100	
HEM PUN	40	33	Bare Groun		_
THE CAP	40	33	Rocks	9	_
HEM FIT	20		Other	9	
CEN SOL	10	8	TOTAL =	100	 %
			1		
	· =·				
			.		
			.		
			.		
TOTAL SUM (∑) =	= <u>/20</u>	100%	İ		
			<u> </u>		
Species (Despending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>	
Species (Descending Order) USM PVN	Relative Cover	Cumulative Cover	Indicator Status FAC.	Dominants	
HEM PUN	33 3≞	<u>33</u> 66	FAC	×	
HEM FIT	<u>33</u>	33	FAC N/L FAC U	×	
HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM FIT LOL MUL	33 3=	33 60 84	FAC N/L FAC U	×	
HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM PUN THE CAP HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM PUN THE CAP HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM PUN THE CAP HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM PUN HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM FIT LOL MUL	33 3= /6	33 66 84 92	FAC FAC	×	
HEM PUN THE CAP	33 3= /6	33 66 84 92	FAC FAC	×	

ENVIRONMENTAL CONSULTANTS	ROUTINE WETLAND DELINEAT
Project/Site: Acmonia Range	
Applicant/Owner: MR. J Courte County Bullion	Sample Points <u>006 - CP</u>
	Plant Community: 44 Acres to the
The state of the s	ID Arminia.
одражи.	
	HYDROPHYTIC VEGETATION? Yes □ N
Dominant Species Ind Status Stratum Rel. % Cover	Dominant Species Ind. Status Sustain Rel. % Cover
1) THE CAP WILL HEAR 42	5)
2)	6)
-,	7)
4)	8)
Percentage of dominant species that are OBL, FACW, and/or FAC [<u> </u>
Comments:	excluding FAC-]:
ecorded Dam: Yes 🗆 No & if yes,	
ecorded Dan: Yes I No I If yes, epth of surface water: (in.) Depth to free water in primary Indicators: I Inundated I Samraned in Upper 12 in. II Water and I water and I water and I water stained Leaves I Oxidized Root Channels in Upper 12 in. II Water-stained Leaves I	WETLAND HYDROLOGY? Yes I No pic
ecorded Dan: Yes I No I If yes, epth of surface water (in.) Depth to free water in primary indicators: I inumitated I Samraned in Upper 12 in. II Water-stained Leaves I Oxidized Root Channels in Upper 12 in. II Water-stained Leaves I onlineate:	pic
ecorded Dan: Yes I No I If yes, epth of surface water (in.) Depth to free water in a rimary indicators: I inumitated I Samraned in Upper 12 in. II Water-stained Leaves I Oxidized Root Channels in Upper 12 in. II Water-stained Leaves I comments:	pic
epith of surface water: (in.) Depth to free water in primary Indicators: I Inundated II Samrated in Upper 12 in. II Water-stained Leaves I Oxidized Root Channels in Upper 12 in. II Water-stained Leaves I ontherwise:	pic
epth of surface water	pic
epth of surface water	Drainage Class: WELL DRA NO Chrome Colors D Congrete Description (in.) Drainage Class: Drainage Patterns in West Drainage Patterns in West Drainage Patterns in West Drainage Patterns in West Drainage Class: West Drainage Class: Drainage
Depth of surface water:	pic
Econdary Indicators (2 or more required): I Oxidized Root Channels in Upper 12 in. I Water-stained Leaves I omments: **DOTTENT LOPEN** Extractionary [Subgroup]: **FINE** LOPEN** There Th	Drainage Panems in West Local Soil Survey Data FAC-Neutral Test Other HYDRIC SOILS? Yes No I Drainage Class: West Drainage No I Reducing Conditions Gieved/Low Chroma Colors Concrete Streaking in Sandy Soils FListed on Hydric Soils List Other On Hydric Soils List Yes No I
Depth of surface water:	Drainage Class: WELL Drainage Congress
Depth of surface water:	Drainage Panems in West Local Soil Survey Data FAC-Neutral Test Other HYDRIC SOILS? Yes No I Drainage Class: West Drainage No I Reducing Conditions Gieved/Low Chroma Colors Concrete Streaking in Sandy Soils FListed on Hydric Soils List Other On Hydric Soils List Yes No I
Depth of surface water:	Drainage Panems in West Local Soil Survey Data FAC-Neutral Test Other HYDRIC SOILS? Yes No I Drainage Class: West Drainage No I Reducing Conditions Gieved/Low Chroma Colors Concrete Streaking in Sandy Soils FListed on Hydric Soils List Other On Hydric Soils List Yes No I
Pepth of surface water:	Drainage Panems in West Local Soil Survey Data FAC-Neutral Test Other HYDRIC SOILS? Yes No I Drainage Class: West Drainage No I Reducing Conditions Gieved/Low Chroma Colors Concrete Streaking in Sandy Soils FListed on Hydric Soils List Other On Hydric Soils List Yes No I
Pepth of surface water:	Drainage Panems in West Local Soil Survey Data FAC-Neutral Test Other HYDRIC SOILS? Yes No I Drainage Class: West Drainage No I Reducing Conditions Gieved/Low Chroma Colors Concrete Streaking in Sandy Soils FListed on Hydric Soils List Other On Hydric Soils List Yes No I
Depth of surface water:	Drainage Panems in West Local Soil Survey Data FAC-Neutral Test Other HYDRIC SOILS? Yes No I Drainage Class: West Drainage No I Reducing Conditions Gieved/Low Chroma Colors Concrete Streaking in Sandy Soils FListed on Hydric Soils List Other On Hydric Soils List Yes No I

Wetland Type: No NE

HERBACEOUS COVER	DOMINANCE WO	RK SHEE
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			•	
Species Observed	Actual Cover	Relative Cover	COVER:	
ERE SET	10	প্র	Vegetation	
TAE CAP	80	62	Bare Groun	
FOR MUR	<u> 20 </u>	15	Rocks	
LOL MUL	20	/5	Other	
			TOTAL =	100%
			1	
TOTAL SUM (Σ)	= 130	109%		
			•	
			İ	
	•			
Species (Descending Onies)	Relative Cover	Cumulative Cover	Indicator Status	Dominants
	Relative Cover	Camulative Cover	Indicator Status	<u>Donainants</u>
TAE CAP		· ·		<u>Dominants</u>
TAE CAP	62	62 77	N/L FAC +	<u>Donamants</u>
HOR TUR	62 15 15	62 	N/L FAC T	<u>Donainants</u>
HOR TUR	15	62 77	N/L FAC +	<u>Dominants</u>
HOR TUR	62 15 15	62 	N/L FAC T	Dominants
HOR TUR	62 15 15	62 	N/L FAC T	Donamants
HOR TUR	62 15 15	62 	N/L FAC T	Donamants
HOR TUR	62 15 15	62 	N/L FAC T	Dominants
HOR TUR	62 15 15	62 	N/L FAC T	Donwarts
HOR TUR	62 15 15	62 	N/L FAC T	Donamants
HOR TUR	62 15 15	62 	N/L FAC T	Dominants
HOR TUR	62 15 15	62 	N/L FAC T	Dominants
HOR TUR	62 15 15	62 	N/L FAC T	Donweapts
tor while	62 15 15	62 	N/L FAC T	Dominants
HOR TUR	62 15 15	62 	N/L FAC T	Dominants

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Project/Site: Finance F.	+nuc ii	Date: 07 - 01	7 - Z00 R	5
. 19911cm to 01160 . 1/2. 3 Cab171	C , COUNTY BUILDING	of Field Investigation -		
	S(822) C. A-	Plant Commence	A .	<i>*</i> .
Quad(s):		Section Constituting		LACACAL PARCE
are in the second contractions of	XIST SILE / Yes 🗀 No 🍽 If 🗝	avalain. Chu		
	CPIGILI.			
ls this a potential Problem Area? Yes	☐ No ☐ Explain:		·	
	_ _	· -		
			HYDROPHYTIC	YEGETATION? Yes □ No C
Communi Species Ind. States		Dominant Species	led Starus S	Samon Rel. % Cover
1) TAS CAP NILL	<u> </u>	5)	- -	
2) <u>036 -706 </u>	<u> </u>	6)		
3) <u>880 </u>	Force 20	7)		
4) CON AREV Y	<u> </u>	8)		
Percentage of dominant species that are	OBL, FACW, and/or FAC fe	xcluding FAC.	1/4 - 25	
Сотипения:		g : : (C-).	= = = = = = = = = = = = = = = = = = = =	%
				
HYDROLOGY —				
			WETLAND B	YDROLOGY? Yes You 🗆
Recorded Data: Yes 🗆 No 🖸 If yes,				
Depth of surface water:(in.) Depth to free water in p	ic (ia.)	Depth to saturated:	soil: 2 (in.)
Sati	graned in Upper 12 in. 🗖 Wat	er Marks 🖵 Drift Lines	: 🗷 Sediment Deposit	is M Drainage Patterns in Wedam
Transport of the second of the second	Ma):			
Oxidized Root Channels in Upper 12 in	n. 🖬 Water-stained Leaves 🖺	Local Soil Survey Dat	a 🔾 FAC-Neutral Te	st 🖸 Other
Comments: DRAINAGE FATTERIA	7 767: 1610 59 .	Parana Borner	wa na Pada	<u>ak in sa Johan.</u>
			HY	DRIC SOILS? Yes U No D
	ENT - LOAMS		Drainage	e Class; West Cheming
Taxonomy [Subgroup]: FINE-LOAP	MOKENT THORESON	c Type Diere	シマペーとデュ Confirm	Man Type: Yes 🗆 No 🖸
☐ Histosol ☐ Histic Epipedon ☐ Suñdio	: Odor 🗖 Aquic Moisture Re	gime 🛘 Reducing Con	ditions 🗖 Glever/L	ow Chroma Colors 🖼 Concretion
a ritigo Organic Content to Surface Layer	in Sandy Soils 🖸 Organic Si	reaking in Sandy Soils	isted on Hydric	Soils List 🖾 Other
Inclusions [Series/Phase]:	Exist in Dan	5085 10W 8		rdric Soiis List. Yes 🖫 No 🚨
. r	rix Color Mortle Co	ior Monte (Abund	/Contrast/Size)	exture, Concretions, Structure
	5 YR 4/2			LOAM
				
	_ 	<u></u>		
				
Comments:				
DECISION -	,	WETLAND /	WATERS DETER	MINATION? Yes D No G
· · · · · · · · · · · · · · · · · · ·	Australia Supra	<u></u>		
General comments:		··		
		Wetland Type: <u>N</u>	NE - UPLAND	<u>್ಷವಿಗಳಿಕ</u>

HERBACEOUS C	OVER / DOMINA	ANCE WORK	SHE=
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Species Observed Actual Cover Relative Cover Vegetation Actual Cover	_			<u> </u>	1	
TOTAL SUM (Σ) =	<u>Spe</u> :	cies Observed	Actual Cover	Relative Cover	COVER	
### DOTAL SUM (Σ) = ### AR V 20	TAE	CAPO ~=	40			101
FR.3 HoR FR.1 30 20 12 Other	401	MUL FAL	30	25		
C2N PRV N/L 30 20 12 Other	_ <i>58</i> .0	HOR Fre	- 30		-	
TOTAL SUM (2) = 150 100% TOTAL SUM (2) = 150 100% TOTAL SUM (2) = 150 100% TOTAL SUM (2) = 150 100% TOTAL SUM (2) = 150 100% TOTAL SUM (2) = 150 100% TOTAL SUM (2) = 150 100% TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL = 100 TOTAL SUM (2) = 150 100% TOTAL = 100 TOTAL	URT	DIO FreN	20		- <u>1</u>	
TOTAL SUM (Σ) = 150 100% ctits (Descending Onter) Relative Cover Camulative Cover Indicator Status Dominants TAE CAP 27 27 27	CON	ARV NI.	<u>3</u> 0			
Completive Cover Completive Cover Indicator Status Dominants					-	20
Completive Cover Completive Cover Indicator Status Dominants				·	-	
Completive Cover Completive Cover Indicator Status Dominants					- j	
Relative Cover Complative Cover Indicator Status Dominants					- }	
Relative Cover Indicator Status Dominants FAE CAP 27 27 1/4 X COL HUL 20 47 460 X COL HUL 20 47 460 X COL HUL 20 52 N/4 X COL ARV 20 52 N/4 X					- [
Relative Cover Indicator Status Dominants FAE CAP 27 27 1/4 X COL HUL 20 47 460 X COL HUL 20 47 460 X COL HUL 20 52 N/4 X COL ARV 20 52 N/4 X					-	
Relative Cover Indicator Status Dominants FAE CAP 27 27 1/4 X COL HUL 20 47 460 X COL HUL 20 47 460 X COL HUL 20 52 N/4 X COL ARV 20 52 N/4 X					-	
Relative Cover Complative Cover Indicator Status Dominants					·	
Relative Cover Complative Cover Indicator Status Dominants					-	
Complete Complete Complete Complete Complete Cover Complete Cover Complete Cover Complete Cover Complete Cover Complete Cover					`	
Completive Cover Completive Cover Indicator Status Dominants	т	OTAL SUM (5) =	150	100%	·	
TAE CAP 27 27 N/L X 102 HUL 20 47 FAC Y 100 HAC 20 67 FACUT X 100 ARV 20 52 N/L X	•	01AD 501A (2)	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	100 /6		
102 HUL 20 47 GAC Y 8KO HUK 20 67 FACU X 10N ARV 20 82 N/L X	pecies (D TAE		_			
100 ARV 20 67 FACUT X			''		·	
ON ARV 20 52 N/L X.		.	<u> </u>	67		
				<u> </u>		×.
				120	 -	
				<u> </u>		
	··-					
						
					·	
					<u> </u>	
			· · · · · · · · · · · · · · · · · · ·			
		 _				 -

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Project/Site: Au	TUND RUNGH		Date: _のテー(≤ =	2 <i>0</i> 0 ₹	Samula	Point AAS	
Applicant/Owner: 17/2	J. COULTER, COL	NTT BULLDUR	/ Pield Investigator(s):	₹	HE WAS IS		<u></u>
County: F42	Stare Stare	: C#	Plant Community	A 414141 A	<u> </u>		
Quad(s):	es be sure		Section/Township/D	7.14100	~	12.5	
Do normal environment	al conditions exist site? Y	res 121 No □ 16 no	evalain:	របតិន: — <u> </u>	* 1,0M i	<u> </u>	
Atypical Situation? Yes	No 🗗 Explain:				<u> </u>		
Is this a potential Proble	em Area? Yes 🗆 No 🖭	Explain:		<u> </u>			- - -
- VEGETATION -							
				_HYDROF	HYTIC VEG	ETATION? Yes	Œ N≎(
Dominant Species		Rel. % Cover	<u>Dominant Species</u>	Ind. Statu	s Stranum	Rei. % Cover	
	N/L HERE		5)				
	FAL T HERB	18	5)				
3) <u>ዙg</u> ማ ቃህል	FAL HERR	<u> 18</u>	7)	_			
4)			8)			·	
	pecies that are OBL, FAC			2/2 _		· 	
Comments: 47000	TIL VIEL -	-> Messener	Attacheria	<u> </u>		546.4500	
APSA 18	Harana EXCA	REMINAT.		11774 <u>A40</u>	MALS IN	ENEC - SEE	
HYDROLOGY —			·	- WETT	LAND HYDR	OLOGY? Yes	No E
Recorded Data: Yes 🗆 N	a 🛎 If yes,	<u> </u>			=		
Depth of surface water:						(in.))
Primary Indicators: 🖵 In	undated 🗆 Saturated in t	ipper 12 in. ⊐ Wa	ter Marks 🚨 Drift Lines	s 🖵 Sedimen	t Deposits 🖸 I	Orainage Panerns i	n Wetlar
Secondary Indicators (2 t	or more required):						
Oxidized Root Channel	s in Upper (2 in. 🗖 Wate	r-stained Leaves D	Local Soil Survey Dat	ta 🖵 FAC-N	aural Test 🖵 (Other	
Comments: Trans.	N SEUPES Town	<u>هٰ کے وحدہ ص</u>	<u>/</u>				
SOILS		<u>.</u>			HYDRIC	SOILS? Yes 🗆	No 🖳
Series/Phase:/47	F. DOTHENT - K	ASE BELL LA	AMS.		D-singe Clas	s: Work Da	
Taxonomy (Subgroup):	FIDOTHENT - K ME-LORMY, MIVED OPMY MIXED THE	THURSTILL THEIR	DIRINGTONES		_		
🖾 Histosol 🖾 Histic Epip							
☐ High Organic Content in							
Inclusions [Series/Phase]:	ALAMA EPILS	In De	rektolow 3	- 213023	On Hydric S	Soils List: Yes 🗗	No 🗆
	izon Matrix Color	Mortle C	_	rd/Contrast/Siz	_	e, Concretions, Struc	
	A 75724/3					137 20 PM	
				•		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
							
			· · · · · · · · · · · · · · · · · · ·	<u> </u>			
Comments:	-	-			_ 	·	
DECISION *			WETLAND	/WATEDS	DETERMIN	ATION? Yes	No ET
Rationale: UP: Hwg	BASED ON H	70R3-364	A SOILS	, majeko	Com a Marchana		
General comments:		_ ** FM C		· · _ ··-			
			Wetland Type:	NONE	"-		
				C			

HERBACEOUS COVER / [DOMINANCE WORK	SHEE
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Species Observed CEN SOL NL HEM FIT FALU HEM PUN FAL LED TAR FALU HOR MYR FAL TAE CAP MIL TRI HIR N/L	10 20 10 20	Relative Cover 9 9 /8 9 /8 28 9	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (\(\Sigma\) = Species (Descending Order) TAE CAR HOR MAR HEM PUN	// O	190% Cumulative Cover 2 8 46 64	Indicator Status N/L FAC + FAC	Dominants X X

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Project/Site: Armo		-					Samble	Paint 🗢	
Applicant/Owner: //	J. COULTINE	LOUNTY	BULLDURA	⊍ Field ੀ	(Vestigator(s))	T> 4∞	5		
County: P_pa	<u>ne</u>	State:	CA	Plant C	arramunity:	مرجعان مريدك	400		
Quad(s):	<u>س</u> ابد <u>ي ده د</u>	645 5		Section	Townshin/Rar	17 17	1001	<u> </u>	
Do nothan chromment	i conditions ex	usi site! Yes	Ma_Nor⊤ It:	no, explain:		· · · · · ·			
Atypical Situation? Yes	□ No SE Exp	olain:							
ls this a potential Proble:	n Area? Yes 🛭	⊒ No 🖬 Exț	plain:				<u> </u>	_	
VEGETATION —			<u> </u>						
Dominant Species	[nd. Stanis	F	1-1-2-2	_		HYDROPH			
1) <u>401 MUL</u>			<u> </u>		inant Species			Rel. % Co	
2) TAC CAP					_ ·				
									
3)				7)					_
4)	 .	 -			<u> </u>				
Percentage of dominant sp	ecies that are (OBL. FACW,	and/or FAC	[excluding	FAC-]:/	2 .	SD %		
Comments:									
			<u> </u>						
YDROLOGY —									
							ND HYDRO	LOGY?	Yes 🗖 No
D	antes.								
Recorded Dara: Yes 🗆 No									·
Depth of sturface water:	(i	ia.) Depth to	free water in	pit:	(in.)	Depth to satu	rated soil:		(in.)
Depth of sturface water:	(i	ia.) Depth to	free water in	pit:	(in.)	Depth to satu	rated soil:	rainage Pa	(in.)
	indeted 🗖 Sand	ia.) Depth to trated in Uppe	free water in	pit:	(in.)	Depth to satu	rated soil:	rainage Pa	(in.) tems in We
Depth of surface water: Primary Indicators: Interest in Indicators (2 or	indeted 🗖 Saru more require	in.) Depth to trated in Uppe d)r	free water in er 12 in. 🗖 W	pit:	(in.) Drift Lines	Depth to satu	irated soil: Deposits Q D	rainag e Pa	tems in We
Depth of sturface water: Primary Indicators: □ Inc	indeted Saru more require in Upper 12 in	io.) Depth to trated in Uppe d): n. D Water-st	free water in ar :2 in. 🗖 W ained Leaves	pit: Vater Marks	(in.) Drift Lines oil Survey Data	Deput to saru Sediment I	irated soil: Deposits Q D	rainag e Pa	tems in We
Depth of surface water: Primary Indicators: Inc. Secondary Indicators (2 or Oxidized Root Channels	indeted Saru more require in Upper 12 in	io.) Depth to trated in Uppe d): n. D Water-st	free water in ar :2 in. 🗖 W ained Leaves	pit: Vater Marks	(in.) Drift Lines oil Survey Data	Deput to saru Sediment I	irated soil: Deposits	rainage Pa	tems in We
Depth of surface water. Primary Indicators: In Inc. Secondary Indicators (2 or Oxidized Root Channels Comments: PRIRED	indexed Sanumer requires in Upper 12 in	n.) Depth to trated in Uppe d): 1. Water-st 72 tde-s	free water in ar 12 in. Wained Leaves	opit: Varer Marks : □ Local So	(in.) □ Drift Lines oil Survey Data システーク 〇〇	Deput to saru Sediment I FAC-Neut	irated soil:Deposits	therSOILS?	rtems in We Yes □ No
Depth of surface water: Primary Indicators: In Inc. Secondary Indicators (2 or III) Oxidized Root Channels Comments: PRIMED OILS Series/Phase: /47	indeted Sans more requires in Upper 12 in FIGURE	Depth to trated in Uppe d): 1. Water-st. 1. Water-st.	free water in at 12 in. We alined Leaves	Varer Marks Local So	in.) ☐ Drift Lines Survey Date Arr > OC	Depth to satu Sediment I FAC-Neur D	rated soil: Deposits Q D tral Test Q O HYDRIC rainage Class	therSOILS?	Yes ☐ No
Depth of surface water: Primary Indicators: In Inc. Secondary Indicators (2 or III) Oxidized Root Channels Comments: PP RED OILS Series/Phase: /47 Faxonomy [Subgroup]:	in Upper 12 in	Depth to trated in Uppe d): 1. [] Water-st	free water in er :2 in. □ W ained Leaves Leaves SESENCE FRANCISCO FRANCISCO SHALL SHALL	Vater Marks Local So	in.) ☐ Drift Lines Drift Lines Drift Lines Drift Lines	Deput to saru Sediment I FAC-Neut D	irated soil:	ther SOILS?	Yes No
Depth of sturface water: Primary Indicators: Interest Indicators: Interest Indicators: Interest Indicators: Interest Indicators: Interest Indicators: Interest Indicators: Interest Indicators: Interest Indicators: Indicato	induced Sand	Depth to trated in Uppe d): 1. Water-st. 1. Water-st. 1. Water-st. 2. Water-st. 3. Water-st. 4. Water-st. 2. Water-st. 4. Water-st. 2. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 4. Water-st. 5. Water-st. 6. Water-st. 7. Water-st. 6. Water-st. 7. Water-st. 6. Water-st. 7. Water-st. 6. Water-st. 7. Water-st. 8. Water-st. 9	ines water in ar 12 in. Walliam Leaves See See See See See See See See See Se	Varer Marks Local So	(in.) Drift Lines Survey Date Survey Date Survey Date Survey Date Survey Date Survey Date Reducing Con	Depth to saturate I Sediment I I FAC-Neur Discovery Coditions I Gie	rated soil:	softs? Softs? Yes Type: Yes	Yes No
Depth of sturface water: Primary Indicators: Interpretation (2 or Oxidized Root Channels Comments: PR RED OILS Series/Phase: /// 7 Taxonomy [Subgroup]:	in Upper 12 in FIGO TO Surface Layer	Depth to trated in Upper dir. Depth to trated in Upper dir. Water-st. Depth to trated in Upper dir. Odor Aquin Sandy Soil	if the water in a real in a real Leaves Leave	Local So	(in.) Drift Lines oit Survey Date ox カテックの Reducing Con n Sandy Soils	Depth to saturate I Sediment I I FAC-Neur Discovery Conditions Gie	rated soil:	SOILS? SOILS? Yes Yes Type: Yes Total Ott	Yes No
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HERBACEOUS COVER	/ DOMINANCE WORK SHEE
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Species Observed	Actual Cover	Relative Cover	<u>COVER:</u>	
LOL MUL	60	<u>55</u> '	Vegetation	<u>80</u>
THE CAP	<i>₩0</i>	36	Bare Ground	25
EUC. GLO	10	<u>9</u>	Rocks	6
<u>·</u>			Cther	
			TOTAL =	100%
				
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Decies (Descending Order) LOL MUL FAE CAP	Relative Cover 96 36	Cumulative Cover 55	FAC	OHENE

ECORP Consulting, Inc. ENVIRONMENTAL CONSULTANTS

Applicant/Owner: The S. Gruetae, County Russians Field investigator(s): There is a State of Plant Continuity: Plant Cont	Ambienesion Ma	T C	C	a. Bilas		Sample Point: <	<u></u>
Plant Continuinty: PLAND 1 Continuinty: PLAND 2 Continuinty PLAND 2 Continuinty PLAND 2 Continuinty Plant Continuinty: PLAND 2 Continuinty Plant Continuinty: PLAND 2 Continuinty Plant Continuinty: Plant Continuinty: Plant Continuinty Plant Contin							KILA AZ
Do normal environmental conditions exist site? Yes GNo I foo, expisit: Applical Situation? Yes Q No G Expisit: Strike a potential Problem Area? Yes QNo Q Expisit: Property of the problem Area? Yes QNo Q Expisit: Demininal Species fed. Status Sensor Rel No Cover Domininal Species fed. Status Status Rel No Cover Demininal Species fed. Status Sensor Rel No Cover Domininal Species fed. Status Status Rel No Cover Demininal Species fed. Status Sensor Rel No Cover Domininal Species fed. Status Status Rel No Cover Demininal Species fed. Status Sensor Rel No Cover Domininal Species fed. Status Status Rel No Cover Demininal Species fed. Status Rel No Cover Domininal Species fed. Status Rel No Cover Demininal Species fed. Status Rel No Cover Domininal Species fed. Status Rel No Cover Demininal Species fed. Status Rel No Cover Domininal Species fed. Status Rel No Cover Demininal Species fed. Status Rel No Cover Rel No Cover Recorded Rel No Cover	County:	<u>: /-</u>	Stare:	Plant Community:	HNAUGAL 6	<u></u>	25 Lut
Applical Situation? Yes No Explain:	Quad(s):4_7.c	105 - A 10175	 -	Section/Township/Ra	ange:	ON/BE	<u> </u>
Series/Phase: 1/3 Proportion Comments Property	Do normal environmental	condinons exist sit	e? Yes ≌rNo ユ If	no, explain:			
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26 6) 3) 4) Percentage of dominant species that are OBL, FACW, and/or FAC (excluding FAC-):	1) RUM CRI	GW. W - 1/2	er 35				
4) 8) Percentage of dominant species that are OBL, FACW, and/or FAC (excitating FAC-): 42 = 100 % Comments: 500,1 America of Factor of							
Percentage of dominant species that are OBL, FACW, and/or FAC (excluding FAC.):							
Percentage of dominant species that are OBL, FACW, and/or FAC (excluding FAC-): 2 = 100 % Comments: Seal America of Caracterists Land Factorists Town Telescope (in.) Privacy Educations of Myes, Depth of surface water: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Secondary Indicators: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Secondary Indicators: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Secondary Indicators: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Secondary Indicators: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Secondary Indicators: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Secondary Indicators: (in.) Depth to free water in pit: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Secondary Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil: (in.) Privacy Indicators: (in.) Depth to saturated soil:	· ———			- -			
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Species Observed	Actual Cover	<u>Relative Cover</u>	<i>COVER</i> : Vegetation	5°
EUC GLO N/L	10	13	Bare Ground	40
SAL SAP FICH	10	/3	Rocks	<u></u>
RUM CRI 900-	30	35	Other CANOP!	10
LOL MUL CIC	- -		TOTAL =	100%
HEAL PUN FAC	20	26		
TOTAL SUM (Σ) =	- 80	109%		
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status Domin	<u>ants</u>
RUM CRI	3 <u>5</u>	35¯		
Hom PUN	3 <u>5</u> 26	35 6/	FAC X	
Hem PUN				<u> </u>
Hom PUN EVC GLD	26	6/	FAC X	
Hem PUN	26 13	<u>6/</u> 74	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	
Hem PUN EVC GLD LOL MUL SAL SPP	26 13 13	<u>6/</u> 74 87	FAC X	

APPENDIX B

Plant List

Almond Ranch - Wetland Delineation Plants Observed at Data Points

Abbr.	Scientific Name	Common Name	Indicator Status
AVE FAT	Avena fatua	Wild oat	N/L
BRO HOR	Bromus hordeaceus	Soft brome	FACU-
CEN SOL	Centaurea solstitialis	Yellow star-thistle	N/L
CON ARV	Convolvulus arvensis	Morning Glory	N/L
CYN DAC	Cynodon dactylon	Bermuda grass	FAC
ERE SET	Eremocarpus setigerus	Turkey mullien	N/L
EUC GLO	Eucalyptus globulus	Blue gum	N/L
HEM FIT	Hemizonia fitchii	Fitch's spikeweed	FACU
HEM PUN	Hemizonia pungens	Common tarweed	FAC
HOR MAR	Hordeum marinum	Mediterranean Barley	FAC∸
HOR MUR	Hordeum murinum	Barley	NI
HOL VIR	Holocarpha virgata	Sticky tarweed	N/L
LEO TAR	Leontodon taraxacoides	Hairy hawkbit	FACU
	Lolium multiflorum	Ryegrass	FAC*
LOL MUL	Ranunculus bonariensis	Carter's buttercup	OBL
RAN BON	Rumex acetosella	Sheep Sorrel	FAC-
RUM ACE	Rumex crispus	Curly dock	FACW-
RUM CRI	Taeniatherum caput-medusae	Medusahead grass	N/L
TAS CAP	Trifolium species	Clover	N/L
TRI spe. URT DIO	Urtica dioica	Stinging Nettle	FACW

Indicator Status Codes

OBL = Obligate Wetland; occur almost always (estimated probability >99%) under natural conditions in wetlands.

FACW = Facultative Wetland; usually occur in wetlands (estimated probability 67%-99%) under natural conditions in wetlands.

FAC = Facultative; equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).

FACU = Facultative Upland; usually occur in non-wetlands (estimated probability 67%-99%).

UPL = Obligate Upland; occur almost always (estimated probability >99%) in non-wetlands in the region specified.

N/L = Not Listed.

NI = No indicator was recorded for those species for which insufficient information was available to determine a status.

-- = May or may not occur in wetlands depending upon species.

A positive (+) sign indicates a frequency toward the higher (more frequently found in wetlands) end of the facultative categories. A negative (-) sign indicates a frequency toward the lower (less frequently found in wetlands) end of the facultative categories. An asterisk (*) indicates a tentative assignment based upon limited information or conflicting review.

APPENDIX C

Wetland Delineation

NOT INCLUDED

Interation Emparator

Annual Report of Findings Regarding WET AND DRY SEASON SURVEYS FOR FEDERALLY-LISTED CRUSTACEANS FOR

WHISPERING CREEK

(PLACER COUNTY, CALIFORNIA)

January 7, 2005

Prepared for: Towne Development of Sacramento, Inc.



ANNUAL REPORT OF FINDINGS REGARDING WET AND DRY SEASON SURVEYS FOR FEDERALLY-LISTED CRUSTACEANS

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WHISPERING CREEK

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WET SEASON	SURVEY	
Results		
	SURVEY	

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LIST OF ATTACHMENTS

Attachment A - USFWS Vernal Pool Data Sheets

INTRODUCTION

On behalf of Towne Development of Sacramento, Inc., ECORP Consulting, Inc. (ECORP) conducted a wet season and dry season investigation targeting branchiopod crustaceans at the Whispering Creek Property in Placer County, California. The purpose of the survey was to determine the presence of aquatic crustacean (branchiopod) species listed by the U.S. Fish and Wildlife Service (USFWS) [(i.e., vernal pool fairy shrimp (*Branchinecta lynchi*) and vernal pool tadpole shrimp (*Lepidurus packardi*)]. Surveys were conducted under the authority of Federal Fish and Wildlife Permit No. TE-012973-2 in compliance with the April 19, 1996 *Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods* (Guidelines). This document is the Annual Report of Findings for the Whispering Creek site (as required by Item VII of the *Guidelines*), which summarizes the results of wet and dry season determinate survey work for this property. Mr. Ken Fuller of the USFWS gave ECORP verbal authorization to conduct the survey on 18 November 2003.

The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes that front Meandering Way, on the west by undeveloped lands and rural residences, on the north by PFE Road, and on the east by Oly Lane and rural residences. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey) (Figure 1. *Project Site and Vicinity Map*).

The Whispering Creek vegetation community is currently comprised of non-native annual grassland, willow scrub riparian habitat, and ephemeral drainages and swales. The site topography is gently rolling, and is situated at an elevation of approximately 120 feet above mean sea level. Potential vernal pool crustacean habitat occurs on the property as 9 seasonal wetlands. SW-1 is a relatively deep pool at maximum inundation (approximately 55 cm deep).

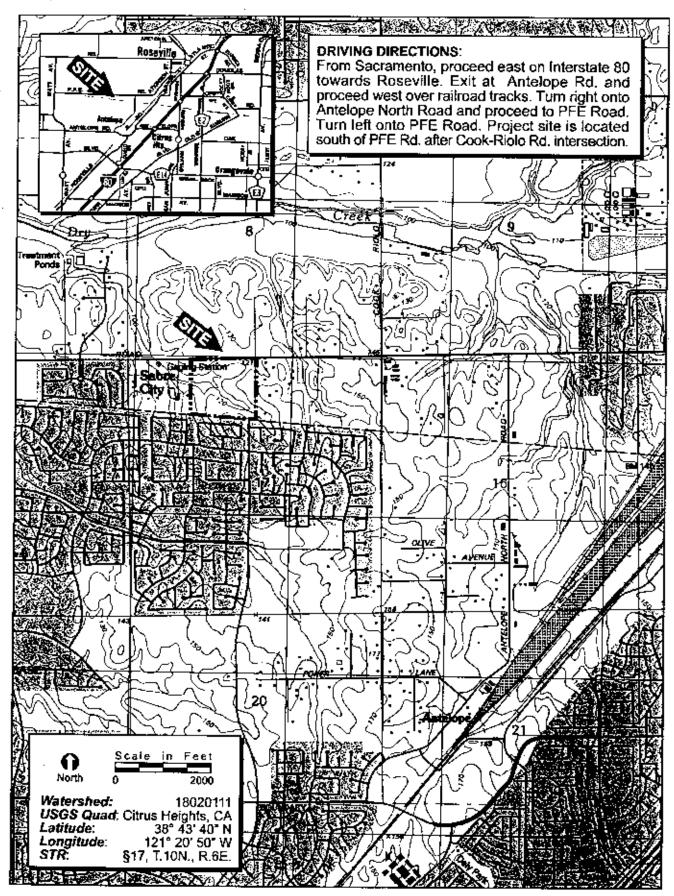


FIGURE 1. Project Site and Vicinity Map

WET SEASON SURVEY

Methods

Survey methodology followed "wet season sampling" protocols outlined in the April 19, 1996

Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the
Endangered Species Act for the Listed Vernal Pool Branchiopods (Guidelines). The property
was visited on 10 December 2003, 22 December 2003, 05 January 2004, 19 January 2004, 02
February 2004, 17 February 2004, and 01 March 2004, 15 March 2004, 29 March 2004, and 12
April 2004. The wetland was dipnetted on each occasion. Necessary data were collected and
documented on U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey data
forms. Permitted biologists Marc Beccio and Susan Ramones conducted the wet season
surveys.

Results

During the 2003-2004 sampling season, the seasonal wetland feature on the property was surveyed on 10 separate occasions. No branchiopods were found. Table 1 presents findings by survey date.

Table 1. Survey Dates and Findings for 2003-2004 Whispering Creek Wet Season Survey.

Survey Date	Wetland Feature / Branchiopods Presence
	SW-1
10 December 2003	No
22 December 2003	No
_05 January 2004	No
19 January 2004	No
02 February 2004	No
17 February 2004	No
01 March 2004	No
15 March 2004	No
29 March 2004	No
12 April 2004	No

Completed U.S. Fish and Wildlife Service Vernal Pool Data Sheet Wet Season Survey data forms and tabular data summary sheets are provided in Attachment A. Data forms/tables summarize all required data (i.e., wetland depth of inundation, surface area, water temperature, branchiopod species occurrence, and approximate number of individuals per species).

DRY SEASON SURVEY

Methods

Soil samples were collected October 15, 2004, and subsequently processed and analyzed according to "dry season sampling" protocols as outlined in the Guidelines.

ECORP processed a total of 10 soil sub samples (approximately 100-ml volume) from the wetland feature. The samples were collected and placed into individually labeled Whirl-Pak® plastic bags.

All soil material was completely processed and analyzed. Each sub-sample was mechanically separated by sieving soil material through a series of four (8-inch diameter) brass sieves (sizes #25, #45, #70, and #100 ASTM). Sieved fractions were then further differentiated via density separation (i.e. saline float). Floating portions of soil fractions retained by the size #70, #45 and #100 sieves (i.e., particles that are 212 m μ to 355 m μ , 355 m μ to 710 m μ , and greater than 710 m μ in size, respectively) were then microscopically inspected for the presence of anostracan (fairy shrimp) and notostracan (tadpole shrimp) cysts. Invertebrate material encountered was also noted on survey detail sheets.

Results

No anostracan or notostracan cysts were found in any of the soil sample fractions. Table 2 summarizes invertebrate material found in the soil sample fractions of SW1.

Table 2. Results of 2004 Dry Season Survey

Sample	Orga	Organic Fractions / Mesh Size				Inorganic Fractions / Mesh Size		
	25	45	70	100	25	45	70	100
SW1-1	0	0	0	0	0	0	0	0
SW1-2	OS	OS	OS	OS	0	OS	10	0
5W1-3	OS	0	0	0	0	0	0	10
SW1-4	0	Ö	0	0	0	0	Ö	0
SW1-5	0	0	OS	0	0	0	10	0
SW1-6	0	0	0	0	0	10	10	0
SW1-7	0	OS	CE	0	OS	0	ā	10
SW1-8	0	CE	CE	0	0	0	To	Ö
SW1-9	OS	CE, OS	CE, OS	CE, OS	OS	OS	OS	0
SW1-10	O5	CE, OS	CE, OS	CE, OS	0	OS	OS	os —

OS = Ostracoda shells, CF = Coleoptera fragments, DF = Daphniidae cysts, CO = Collembola, GE = Gastropoda eggs,

Œ = Cladeceran epiphia

No branchiopod cysts were found in the soil samples taken from the SW1 (seasonal wetland) on the Whispering Creek property.

SUMMARY

The seasonal wetland on the Whispering Creek property was investigated to determine the presence of listed aquatic crustacean (branchiopod) species. Wet season surveys were conducted between 10 December 2003 and 12 April 2004. No anostracan or notostracan species were encountered. Similarly, no anostracan or notostracan cysts were found in soil samples taken on 15 October 2004

ATTACHMENT A

USFWS Vernal Pool Data Sheets

 Site/Project Name:
 Whispering Creek 2002-146
 County/Quad: Placer/Citrus Heights

 Susan Ramones, Marc Beccio
 Permit #: TE-012973-2

 Sample Date.
 [2/10/2003

 Start Time:
 10:00 AM

 Start Air Temp (C):
 14.4

 Start Air Temp (C):
 14.4

Pool Number	Pool <u>Depth (cm)</u>	Surface <u>Area (m)</u>	Max. Surface <u>Area (m)</u>	Water <u>Temperature (C)</u>	<u>Comments</u>
SW-1	39	9*3	9*3	10.5	1 Corixidae

Site/Project Name:	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beccio	Permit #: TE-012973-2
Sample Date:	12/22/2003	
Start Time:	11:25 AM	End Time: 12:20 PM
Start Air Temp (C):	11	Start Air Temp (11

<u>Pool Number</u>	Pool <u>Depth (cm)</u>	Surface <u>Area (m)</u>	Max. Surface Area (m)	Water Temperature (C)	<u>Comments</u>
SW-1	46	9*3	9*3	9.5	

Site/Project Name:	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beccio	Permit #: TE-012973-2
Sample Date:	1/5/2004	
Start Time:	2:05 PM	End Time: 2:25 PM
Start Air Temp (C):	LI	Start Air Temp (11

	Pool	Surface	Max. Surface	Water Temperature	
Pool Number	Depth (cm)	Area (m)	<u>Area (m)</u>	(C)	<u>Comments</u>
\$W-1	45	9*3	9*3	9	Ostracoda = 100s

Site/Project Name:	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beecio	Permit #: TE-012973-2
Sample Date:	1/19/2004	· · · · · · · · · · · · · · · · · · ·
Start Time:	1:45 PM	End Time: 2:15 PM
Start Air Temp (C):	9	Start Air Temp 19

Pool Number	Pool Depth (cm)	Surface <u>Area (m)</u>	Max. Surface <u>Area (m)</u>	Water Temperature (C)	Comments
\$W-1	40	2.5*6	9*3	9	Ostracoda = 100s, 2 Nototnectidae adults

Site/Project Name;	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beccio	Permit #: TE-012973-2
Sample Date:	2/2/2004	· · · · · · · · · · · · · · · · · · ·
Start Time:	1:00 PM	End Time: 1:30 PM
Start Air Temp (C):	8.5	Start Air Temp (8.5

<u>Pool Number</u>	Pool <u>Depth</u> (cm)	Surface <u>Area (m)</u>	Max. Surfaçe Area (m)	Water Temperature (C)	Comments
SW-1	аррх. 55	3*20		7.5	Receiving approximately 1 cfs flow from swale. Ostracoda =

Site/Project Name:	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beccio	Permit #: TE-012973-2
Sample Date:	2/17/2004	
Start Time:	10:30 AM	End Time: 11:05 AM
Start Air Temp (C):	15	Start Air Temp 15

Pool Number	Pool <u>Depth</u> (cm)	Surface <u>Area (m)</u>	Max. Surface <u>Area (m)</u>	Water Temperature (C)	Comments
SW-1	47	3-8		13	Pacific chorus frog embryos = 100s, Ostracoda = 1000s, Culiordae larvae = 10s,

Site/Project Name:	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beccio	Permit #: TE-012973-2
Sample Date:	3/1/2004	
Start Time:	11:45 AM	End Time: 12:30 PM
Start Air Temp (C):	9	Start Air Temp (10

Pool Number	Pool <u>Depth</u> (cm)	Surface Area (m)	Max. Surface <u>Area (m)</u>	Water Temperature (C)	<u>Comments</u>
SW-1	46	3*10		11	Pacific chorus frog larvae = 100s, Ostracoda = 1000s

Site/Project Name;	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Callectors:	Marc Beccio	Permit #: TE-012973-2
Sample Date:	3/15/2004	12 012313-2
Start Time:	10:20 AM	End Time: 10:45 AM
Start Air Temp (C):	20	Start Air Temp (20

Pool Number	Pool <u>Depth</u> (cm)	Surface <u>Azea (m)</u>	Max. Surface Area (m)	Water <u>Temperature</u> (C)	<u>Comments</u>
SW-1	32	3*5		17	Pacific chorus frog larvae = 100s, Ostracoda = 1000s

Site/Project Name;	Whispering Creck 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beccio	Permit #: TE-012973-2
Sample Date:	3/29/2004	
Start Time:	10:00 AM	End Time: 10:15 AM
Start Air Temp (C):	20	Start Air Temp 20

<u>Pool Number</u>	Pool <u>Depth</u> (cm)	Surface <u>Area (m)</u>	Max. Surface Area (m)	Water Temperature (C)	<u>Comments</u>
SW-1	10	0.5*2		19	PCF larvae = 100s, Ostracoda = 100s, Culicidae = 100s,

Site/Project Name:	Whispering Creek 2002-146	County/Quad: Placer/Citrus Heights
Collectors:	Marc Beccio	Permit #; TE-012973-2
Sample Date:	4/12/2004	
Start Time:	9:45 AM	End Time: 10:00 AM
Start Air Temp (C):	16	Start Air Temp : 16

	Pool <u>Depth</u>	Surface	Max. Surface	Water <u>Temp</u> erature	
Paol Number	(<u>cm)</u>	<u>Area (m)</u>	Area (m)	(C)	Comments
		·			
SW-1	DRY	-		·	

U.S. Fish and Wildlife Service Vernal Pool Data Sheet Dry Season Survey

Note: Please fill out the required information completely for each site visit

to the visit.
This form is being submitted to serve as part of the 90-day report: no yes
Required color slides and/or photographs for the project site are included: no yes
Date: 10 /15 /2004 Time: 12:30 County: PURCER Quad: CITICOS HOIGH
Collector(s): MAIZU BECCIS Permit #: TE - 012973 - 2
Site/Project Name: WHISPERING CREEK Pool #: SW
Township: Range: Section: lar. long.
Habitat Condition: (circle where appropriate)
— undisturbed disturbed: tire tracks garbage discing/plowing
- ungrazed grazed: cattle horses sheep other light moderate heavy
- land use of habitat: AWAITING DEVELOPMENT
Pool Bottom Surface: (circle where appropriate) hardpan cobbly/rocky lava flow other
Pool Depth: 40 cm (estimated maximum) Surface Area: 26 m² (estimated maximum)
Sketch of pool and transects showing: - scale - indication of North - sampling locations
$T_1 = 7.4 \text{m/m}^{-1}$ $q = 10$
MUS 6 & HARIN ON TO SAMPLED 9-10 THREN AT DELICE MART OF POOL
WEARING TO THE PROPERTY OF THE

NATIONWIDE PERMIT 39 PRE-CONSTRUCTION NOTIFICATION

For

WHISPERING CREEK

(PLACER COUNTY, CALIFORNIA)

March 12, 2003

Prepared for:
Towne Development of Sacramento, Inc.



RESPONSIBLE PARTIES

Applicant:

Attn: Bill Brown

Towne Development of Sacramento, Inc.

775 Sunrise Avenue, Ste. 270

Roseville, CA 95661 Phone: (916) 782-2424 Fax: (916) 782-2666 Agent:

Attn: Cynthia Herzog ECORP Consulting, Inc.

2260 Douglas Blvd., Suite 160

Roseville, CA 95661 Phone: (916) 782-9100 Fax: (916) 782-9134

NATIONWIDE PERMIT NUMBERS

The applicant is requesting verification of authorization under Nationwide Permit (NWP) No 39 (Residential, Commercial, and Institutional Developments).

PROJECT NAME

Whispering Creek (formerly referred to as PFE 36)

PROJECT LOCATION

The Whispering Creek property is a 36-acre undeveloped parcel within unincorporated western Placer County, west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes that front Meandering Way, on the west by undeveloped lands and rural residences, on the north by PFE Road, and on the east by Oly Lane and rural residences. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey) (Figure 1. *Project Site and Vicinity*).

PROJECT DESCRIPTION AND PURPOSE

The proposed project involves the development of 57 single-family lots with a recreational area, and will preserve two open space areas surrounding wetlands (1.048 acres of seasonal wetland and 0.070 acre of seasonal marsh) and waters (0.355 acre of intermittent drainage) and totaling approximately 6.97 acres (Figure 2. *Proposed Impacts and Preservation Plan*). It will be necessary to place three road crossings and several outfalls within this preserve area. There are approximately 0.003 acre of seasonal marsh and 0.015 acre of intermittent drainage located within an easement held by the Sacramento Municipal Utility District. These wetlands/waters have been classified as "avoided", as they are not subject to long-term preservation.

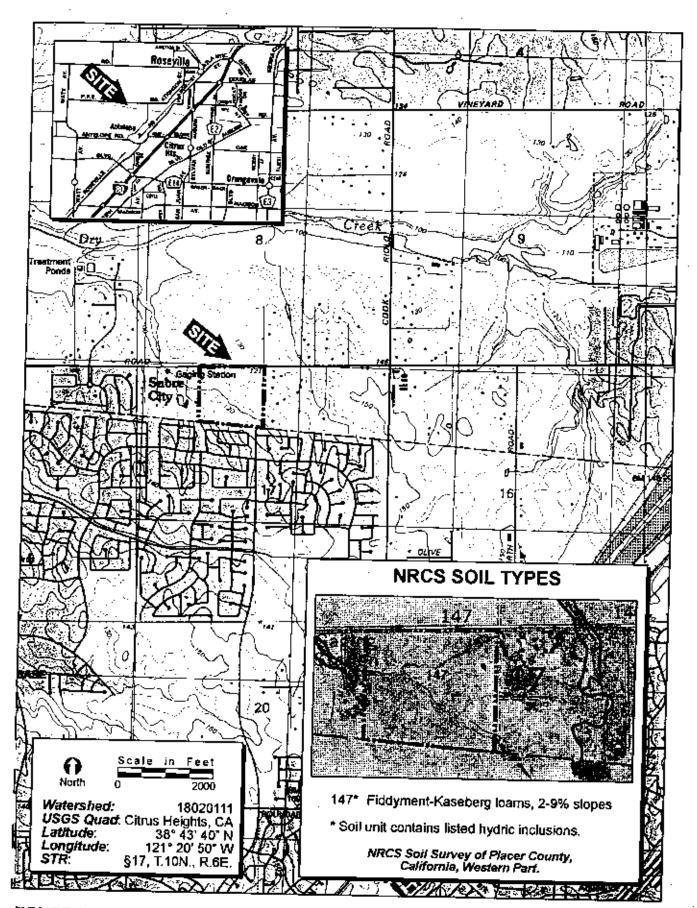
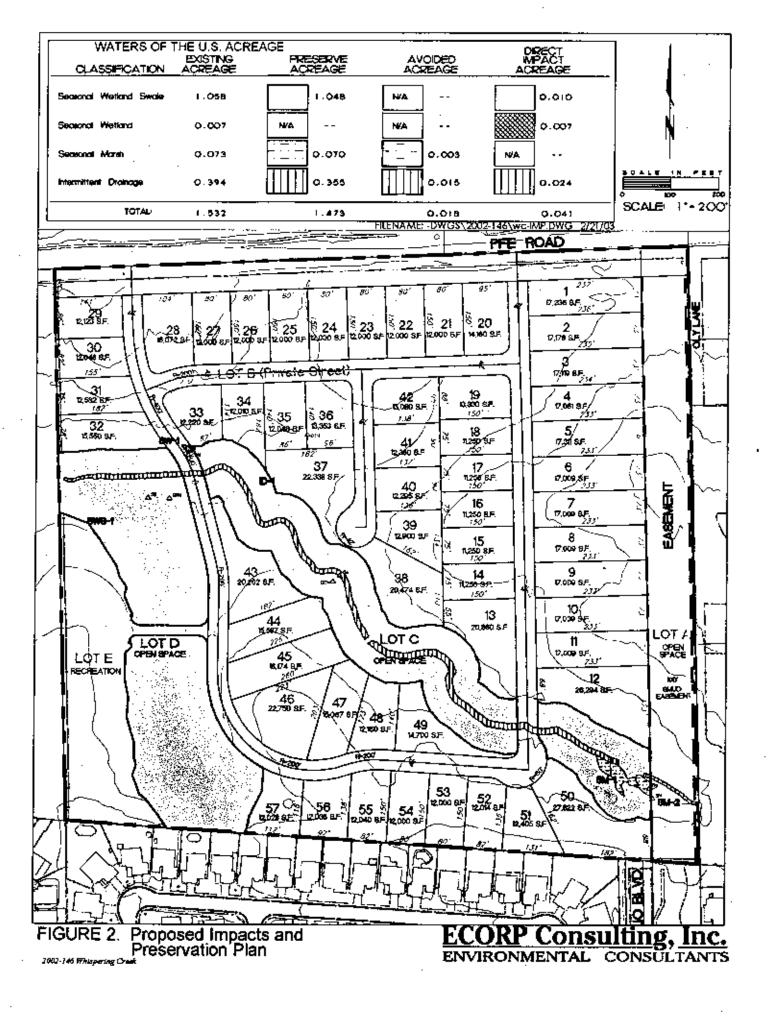


FIGURE 1. Project Site and Vicinity Map



EXISTING SITE CONDITIONS

The Whispering Creek site is currently comprised of non-native annual grassland, willow scrub riparian habitat, and ephemeral drainages and swales. The site topography is gently rolling, and is situated at an elevation of approximately 120 feet above mean sea level. The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*).

Riparian willow scrub vegetation community is present in association with a seasonal wetland drainage that receives runoff from the adjacent housing subdivision to the south. The riparian vegetation is comprised primarily of willow species (*Salix* spp.) and Fremont cottonwood (*Populus fremontii*), with scattered Himalaya blackberry (*Rubus discolor*) and Valley oak (*Quercus lobata*). Understory vegetation is made up of a mixture of upland and wetland plants such as buil thistle (*Cirsium vulgare*), South American vervain (*Verbena bonariensis*), dallisgrass (*Paspalum dilatatum*), annual rabbit-foot grass (*Polypogon monspeliensis*), and ryegrass.

One soil unit has been mapped for the entire site, (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes (U.S. Department of Agriculture, Soil Conservation Service 1980).

JURISDICTIONAL DELINEATION

Potentially jurisdictional waters of the U. S. mapped total 1.532 acres and include wetlands (1.138 acres) and other waters (ECORP 2002, Attachment A). Wetlands consist of seasonal wetland (0.007 acre), wetland swale (1.058 acres), and seasonal marsh (0.073 acre), and other waters are comprised of an intermittent drainage (0.394 acre). Table 1 outlines the existing and proposed impact acreages.

Table 1. Existing and Proposed Impact Acreages of Water of the U.S. Type Existing Direct Impact					
1100	EXISTING	pirect Impact			
Naters					
Seasonal Wetland Swale	1.058	0.010			
Seasonal Wetland	0.007	0.007			
Seasonal Marsh	0.073	0			
Other Waters					
Intermittent Drainage	<u>0.394</u>	0.024			
Total:	1.532	0.041			

DIRECT AND INDIRECT ADVERSE ENVIRONMENTAL IMPACTS

<u>Direct Impacts:</u> The project would directly affect 0.041 acre of waters of the U.S., due to partial fill of seasonal wetland, seasonal wetland swale, and intermittent drainage due to road and culvert construction.

Indirect Impacts: No indirect impacts are associated with this project.

FEDERALLY LISTED SPECIES (General Condition 11)

No federally listed special-status species were observed during field reconnaissance. However, although unlikely due to its hydrologic connection to a drainage feature, the seasonal wetland found on-site may be considered by the U.S. Fish and Wildlife Service (USFWS) to constitute potential habitat for vernal pool fairy shrimp (*Branchinecta lynchi*) and/or the vernal pool tadpole shrimp (*Lepidurus packardi*) (Figure 3). Accordingly, we request that you initiate consultation with USFWS, pursuant to Section 7 of the federal Endangered Species Act. We have provided information typically requested by the USFWS for your use in the consultation process (Attachment 8). Please forward this information to the USFWS along with your request for consultation. The project site is not located within recently proposed Critical Habitat for the vernal pool fairy shrimp.

HISTORIC PROPERTIES

A literature and records search will be done using files from the California Historical Resources Information System, affiliated with the California Office of Historic Preservation. The results of this inquiry will be forwarded to the Corps upon completion. Any cultural resource sites, objects, structures, buildings, or artifacts discovered during the investigation will be recorded using Instructions for Recording Historical Resources (California Office of Historic Preservation 1995).

MINIMIZATION AND AVOIDANCE

The proposed permanent impacts total 0.041 acre, below the 0.5-acre threshold for Nationwide Permit No. 39. The proposed plan has been developed to reduce impacts to the waters of the U.S. by setting aside two open space preserve areas on-site that will total approximately 6.97 acres. The small amount of impact proposed is considered unavoidable, as road crossings are required and the road could not be realigned to avoid the small seasonal wetland without encroaching within 50 feet of the larger seasonal wetland swale. Approximately 0.018 acre of intermittent drainage and seasonal marsh will be completely avoided due to an easement along the eastern project boundary.

OTHER PERMITS REQUIRED

Federal Clean Water Act, Section 401

A request for Water Quality Certification will be submitted to the Central Valley Regional Water Quality Control Board.

California Fish and Game Code

A Lake and Streambed Alteration Agreement will be submitted to the California Department of Fish and Game (CDFG) for direct impacts to the intermittent drainage within the project area.

Federal Endangered Species Act

No federally listed special-status species were observed during field reconnaissance. However, although unlikely due to its connection to a drainage feature, the seasonal wetland found onsite may be considered by the U.S. Fish and Wildlife Service (USFWS) to constitute potential habitat for vernal pool fairy shrimp (*Branchinecta lynchi*) and/or the vernal pool tadpole shrimp (*Lepidurus packardi*).

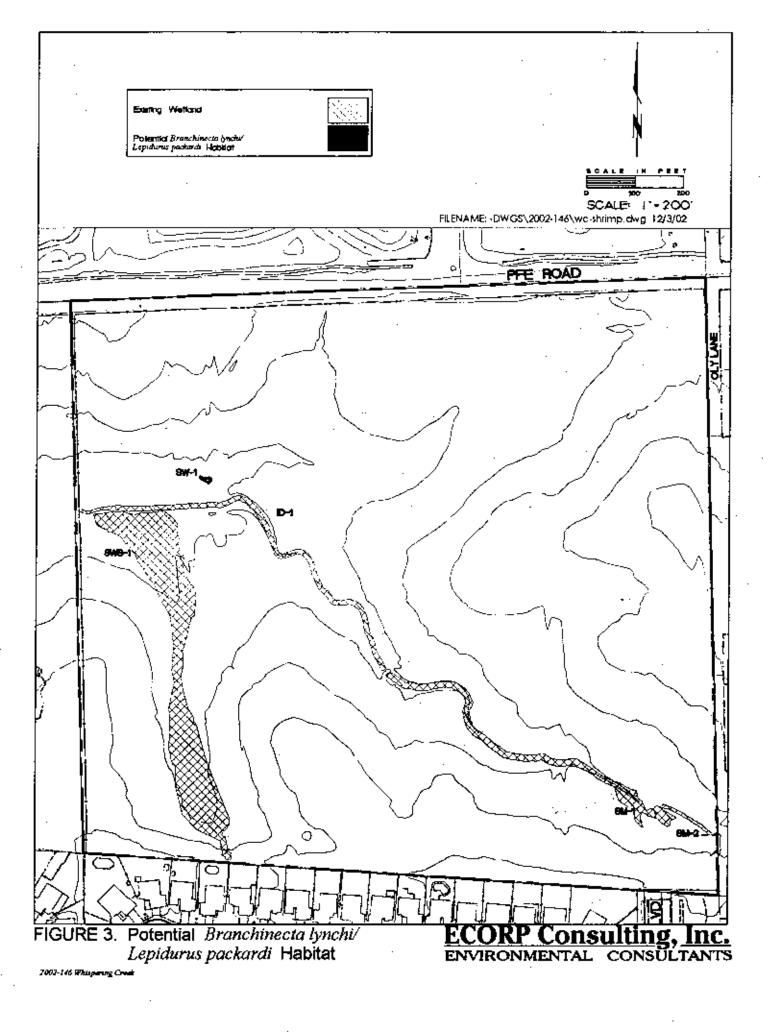
California Environmental Quality Act

The Whispering Creek project was included in the Dry Creek West Placer Community Plan Environmental Impact Report (Placer County 1990). The Resolution was passed by Placer County on May 14, 1990, (Attachment C).

PROPOSED MITIGATION PLAN

Federal Wetland Fill Compensation

Based upon the estimates provided in this document, the amount of fill requiring compensatory mitigation by this project would be approximately 0.041 acre. The applicant proposes to provide mitigation for these impacts via the purchase of appropriate wetland credits (i.e., 0.041 acre of seasonal wetland) from an agency-approved mitigation bank, as outlined in Table 2, below.



Mitigation for Federally Listed Species Habitat

Should the U.S. Fish and Wildlife Service determine that the seasonal wetland at the project site represents habitat for federally listed species, then the applicant would propose additional mitigation, as follows.

Proposed mitigation for wetlands determined to be fairy and/or tadpole shrimp habitat include the creation of fairy and/or tadpole shrimp habitat at a 1:1 ratio (0.007) and the preservation of vernal pool habitat at a ratio of 2:1 (0.014). The applicant proposes to purchase these credits at an approved mitigation bank or other off-site mitigation area acceptable to the USFWS. Mitigation for these impacts would be accomplished via the purchase of vernal pool habitat.

Table 2. Proposed Mitigation Acreages

Type	Existing Impacted		Mitie	Mitigation	
				Creation	Preservation
		Direct	<i>Indirect</i>	1:1	2:1
Waters					
Seasonal Wetland Swale	1.058	0.010	0	0.010	0
Seasonal Wetland	0.007	0.007	0	0.007*	0.014*
Seasonal Marsh	0.073	0	0	0	0
Other Waters					
Intermittent Drainage	<u>0.394</u>	0.024	<u>0</u>	<u>0.024</u>	<u>0</u>
Total:	1.532	0.041	0	0.041	0.014

^{*}Mitigation for federally listed species habitat would be accomplished via the purchase of vernal pool credits.

REFERENCES

ECORP Consulting, Inc. 2002. Wetland Delineation for Whispering Creek, Placer County, California. Roseville, CA.

Placer County et. al. 1990. Dry Creek West Placer Community Plan Environmental Impact Report . Auburn, CA.

LIST OF ATTACHMENTS

Attachment A - Wetland Delineation

Attachment B - Section 7 Consultation Information

Attachment C – Resolution for Dry Creek West Placer Community Plan Environmental Impact Report

ATTACHMENT A

Wetland Delineation

WETLAND DELINEATION

FOR

WHISPERING CREEK

PLACER COUNTY, CALIFORNIA

November 27, 2002

Prepared for:
Towne Realty, Inc.



WHISPERING CREEK

CONTENTS

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FIGURES

Figure 1 – Project Site and Vicinity Map Figure 2 – Wetland Delineation

<u>APPENDICES</u>

Appendix A - Wetland Delineation Data Sheets

Appendix B – Plant List Appendix C – Wetland Delineation

INTRODUCTION

On behalf of Towne Realty, Inc., ECORP Consulting, Inc. has conducted a wetland delineation of the proposed Whispering Creek development site located in unincorporated western Placer County, California. Whispering Creek is a 36-acre undeveloped parcel west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes fronting Meandering Way, on the west by undeveloped lands and rural residences, on the north by PFE Road, and on the east by Oly Lane and rural residences. This site corresponds to a portion of Section 17 of Township $10\,$ North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey 1992) (Figure 1).

APPLICANT:

AGENT:

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775 Sunrise Ave., Suite 270

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SURVEY METHODOLOGY

The wetland delineation was conducted on October 24, 2002, during which time, biologist Keith Kwan walked and inspected the entire site to determine the extent of potential waters of the U.S. within the project site. This wetland delineation was conducted in accordance with the Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory 1987). Wetland boundaries and a number of three parameter data points were mapped and their Global Positioning System (GPS) coordinates were logged and recorded with a Trimble PROXR unit. A black and white aerial photograph (1"=100,' flown on April 4, 2000) was utilized to assist with mapping and ground-truthing. A Munsell Soil Color Chart (Kollmorgen Instruments Corp. 1990) was used to identify hydric soils in the field, and the Jepson Manual (Hickman 1994) was used for plant identification.

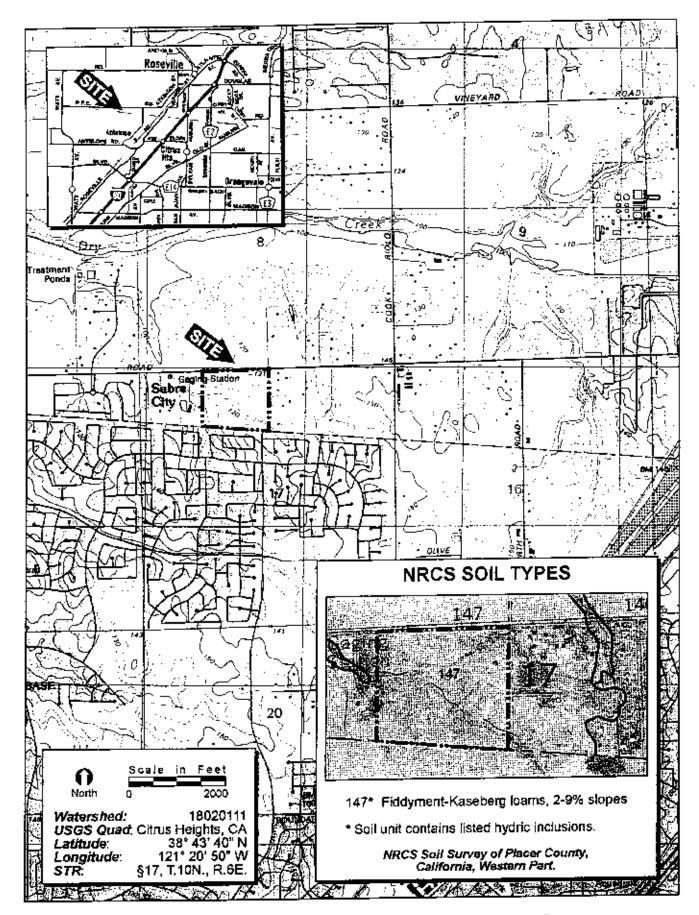


FIGURE 1. Project Site and Vicinity Map

The survey was conducted at the end of the growing season and many plant species had flowered, and most annual species had already declined.

EXISTING SITE CONDITIONS

The Whispering Creek site is currently comprised of non-native annual grassland, willow scrub riparian habitat, and ephemeral drainages and swales. The site topography is gently rolling, and is situated at an elevation of approximately 120 feet above mean sea level. The non-native annual grassland is comprised of non-native weedy species such as soft chess (*Bromus hordeaceus*), ripgut brome (*B. diandrus*), wild oats (*Avena fatua*), ryegrass (*Lolium multiflorum*), filaree (*Erodium botrys*), yellow-star thistle (*Centaurea solstitialis*), and sticky tarweed (*Holocarpha virgata*).

The riparian willow scrub vegetation community is present in association with a seasonal wetland drainage that receives runoff from the adjacent housing subdivision to the south. The riparian vegetation is comprised primarily of willow species (*Salix* spp.) and Fremont cottonwood (*Populus fremontii*), with scattered Himalaya blackberry (*Rubus discolor*) and Valley oak (*Quercus lobata*). Understory vegetation is made up of a mixture of upland and wetland plants such as bull thistle (*Cirsium vulgare*), South American vervain (*Verbena bonariensis*), dallisgrass (*Paspalum dilatatum*), annual rabbit-foot grass (*Polypogon monspeliensis*), and ryegrass.

One soil unit has been mapped for the entire site, (147) Fiddyment-Kaseberg loams, 2 to 9 percent slopes (U.S. Department of Agriculture, Soil Conservation Service 1980).

WATERS OF THE U.S.

Potentially jurisdictional waters of the U. S. mapped total 1.532 acres and include wetlands (1.138 acres) and other waters. Wetlands consist of seasonal wetland (0.007 acre), wetland swale (1.058 acres), and seasonal marsh (0.073 acre), and other waters are comprised of an intermittent drainage (0.394 acre). Three parameter wetland delineation data sheets have

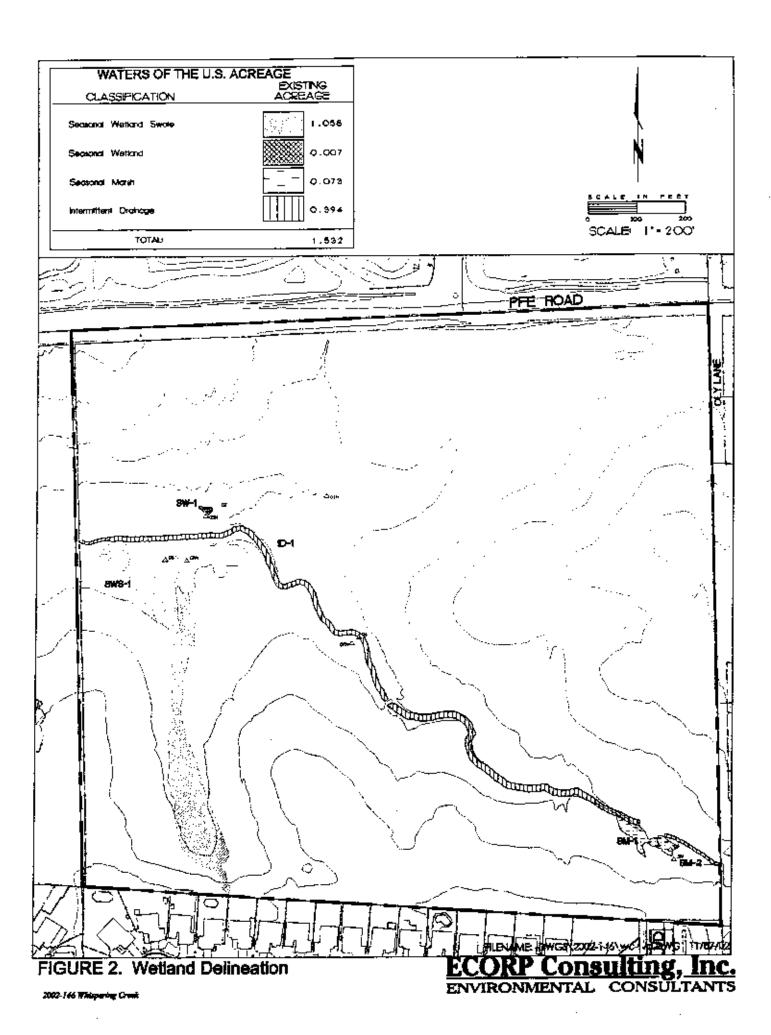
been included as Appendix A, and a list of plant species observed at the data collection points is included as Appendix B. The wetland delineation is presented as Figure 2 and in Appendix C.

Wetlands

Seasonal wetlands are ephemerally wet areas where runoff accumulates within low-lying areas and/or adjacent to watercourses. These may occur as basins or linear features. Linear features are typically referred to as seasonal wetland swales. The vegetative composition of the seasonal wetland on-site is comprised of non-native wetland generalist plants as well as native annual species. These include Bermuda grass (*Cynodon dactylon*), tall flatsedge (*Cyperus eragrostis*), ryegrass, hyssop loosestrife (*Lythrum hyssopifolium*), and slender popcorn flower (*Plagiobothrys stipitatus*).

The wetland swale is comprised of riparian woody vegetation and an understory of herbaceous hydrophytic plants. The wetland may be characterized as seasonal, but is largely dependent upon runoff from the subdivision to the north of the site. Consequently, during periods of excessive runoff from landscape irrigation, this wetland swale becomes saturated and inundated in the lower lying areas. This may occur during any season through the year. The riparian canopy is comprised of Goodding's black willow (*Salix gooddingii*) and Fremont cottonwood. Herbaceous vegetation within the swale includes tall flatsedge, clustered dock (*Rumex conglomeratus*), curly dock (*R. crispus*), and cattali (*Typha* spp.).

The seasonal marsh within the eastern portion of the site is situated within and adjacent to a naturally occurring topographic swale and may also receive additional intermittent runoff from Don Julio Boulevard, which is located immediately to the south. Plants within the marsh are typical seasonal wetland and moist soil species such as annual rabbit-foot grass (*Polypogon monspeliensis*), Bermuda grass, tall flatsedge, soft rush (*Juncus effusus*), hairy willow-herb (*Epilobium ciliatum*), and prostrate knotweed (*Polygonum arenastrum*).



Other Waters

An intermittent drainage provides the primary drainage through the entire site. The drainage ranges from 6 to 15 feet wide (top of bank to top of bank) and approximately 1 to 4 feet deep (top of bank to bed). The flows are intermittent through the wet season and augmented by urban runoff and possibly ground water during the drier portions of the year. Vegetation is absent in reaches where flows are too high and suitable soil does not exist, while vegetative cover is persistent in reaches where sediment accumulation allows for growth within a relative unstable environment. The plant species observed within the drainage include typical wetland and moist soil species such as broad-leaf cattail (*Typha latifolia*), lady's thumb (*Polygonum persicaria*), annual rabbit-foot grass (*Polypogon monspeliensis*), and hairy willow-herb (*Epilobium ciliatum*).

INTERSTATE OR FOREIGN COMMERCE

The wetlands mapped on-site are within the Dry Creek watershed. Dry Creek is located several hundred yards to the north of the site. Due to the rolling topography of the site, overland flows of rainwater accumulate within the on-site wetland features, and during the wet season, water levels increase and eventually spill into larger drainages on-site and off-site. These flows ultimately reach Dry Creek. Dry Creek eventually flows into the Sacramento River, which is navigable water. Thus, these waters should be considered tributary and/or adjacent to a documented Water of a U.S. and would therefore be subject to interstate and/or foreign commerce.

CONCLUSION

Potentially jurisdictional waters of the U. S. mapped on-site total 1.532 acres and include wetlands (1.138 acres) and other waters. Wetlands consist of seasonal wetland (0.007 acre), wetland swale (1.058 acres), and seasonal marsh (0.073 acre), and other waters are comprised of an intermittent drainage (0.394 acre). Any impact to these features would likely require permitting pursuant to Section 404 and 401 of the federal Clean Water Act.

REFERENCES

884 CH C

- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U. S. Army Engineer Waterways Experiment Station. Vicksburg, Mississippi.
- Hickman, James C. ed. 1993. The Jepson Manual, Higher Plants of California, University of California Press, Berkeley, California.
- Kollmorgen Instruments Corp. 1990. Munsell Soil Color Charts. MacBeth Division of Kollmorgen Instruments Corporation. Baltimore, Maryland.
- U.S. Department of Agriculture, Soil Conservation Service. 1980. Soil Survey of Placer County Western Part, California. U.S. Department of Agriculture, Soil Conservation Service. Davis, California.
- U.S. Department of the Interior, Geological Survey. 1992. "Citrus Heights, California" 7.5-minute Quadrangle. Geological Survey. Denver, Colorado.

LIST OF APPENDICES

Appendix A. Wetland Delineation Data Sheets

Appendix B. Plant List

Appendix C. Wetland Delineation

APPENDIX A

Wetland Delineation Data Sheets

ROUTINE WETLAND DELINEATION **ECORP Consulting, Inc.** ENVIRONMENTAL CONSULTANTS Project/Site: Whispering Crack ____ Date: 10/24/12 ____ Sample Point: ____ O/ Applicant/Owner: Tow-a Development Field Investigator(s): K. Kwan County: Place State: CA Plant Community: An and Gas, God Do normal environmental conditions exist site? Yes No 🗆 If no, explain: ______ Atypical Situation? Yes 🗆 No 🔀 Explain: _____ Is this a potential Problem Area? Yes X No a Explain: eptemera (swale HYDROPHYTIC VEGETATION? Yes 3 No 18 VEGETATION -Stramm Rei, % Cover Ind. Status Dominant Species Stratum Ref. % Cover Dominant Species Ind. Storus Percentage of dominant species that are OBL, FACW, and/or FAC [excluding FAC-]: ______ = ________ WETLAND HYDROLOGY? Yes □ No.27 HYDROLOGY ---Recorded Data: Yes 🗆 No XII yes, ______ Depth of surface water: _____(in.) Depth to free water in pit ______(in.) Depth to saturated soil: ______(in.) Primary Indicators: 🔾 Inundated 🗘 Saturated in Upper 12 in. 🗘 Water Marks 🗘 Drift Lines 🗘 Sediment Deposits 🗘 Drainage Patterns in Wetlands Secondary Indicators (2 or more required): 🗷 Oxidized Root Channels in Upper 12 in. 🔾 Water-stained Leaves 🗆 Local Soil Survey Data 🔾 FAC-Neutral Test 🗅 Other _____ HYDRIC SOILS? Yes □ No. 2 SOES = Scries/Phase: 147 Fiddyment-Karelseng warms, 2 to 9 concent slopes Drainage Class: well drained Taxonomy [Subgroup]: Fire-Lorenty, mixed, thermic Typic Derixoralf's Confirm Map Type: Yes Q No Q 🖺 Histosol 🗇 Histo Epipedon 🕒 Suñdic Odor 🖫 Aquic Moisture Regime 📵 Reducing Conditions 🕮 Gleyed/Low Chroma Colors 🖼 Concredons 🗆 High Organic Content in Surface Layer in Sandy Soils 🗆 Organic Streaking in Sandy Soils 🖵 Listed on Hydric Soils List 🖾 Other 🔛 Inclusions [Series/Phase]: Alamo Inclusions in deposition _____ On Hydric Soils List: Yes X No O Texture, Concretions, Structure Monte (Abund/Congrat/Size) Mottle Color Horizon Moorix Color Depth (in.) 10424/2 0-6

Wedand Type: ,

loss not meet a terra

DECISION *

General comments: _

Copyright @2002 ECORP Consulting, Inc.

WETLAND / WATERS DETERMINATION? YES O No. C

HERBACEOUS	COVER /	DOMINANCE	WORK	SHEET
レニンカングクトゥュー			_	

		HERBACEOGS C	JVERY DOMINA	
Species Observed Loluml Tas cap Bro har Holvir Epi sil Lac sen Ane fat	Actual Cover 40 35 20 5 47	Relative Cover 38 33 19 5	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ) =		100% Cumulative Cover	Indicator Status	<u>Dominants</u>
		· · · · · · · · · · · · · · · · · · ·		

ECORP Consulting, Inc.	ROUTINE WETLAND DELINEATION
ENVIRONMENTAL CONSULTANTS	
Project/Site: Whispering Creek	Date: 10/24/07 Sample Point: 02
Andicant/Owner Towne Development	Field Investigator(s): X. Kwan
County Places State: CA	Plant Community: Annal Grass land
and Citas Hoints CA	Section/Township/Range: T. 10 North, R. 6 Ecst Sec. 17
Do normal environmental conditions exist site? Yes Z No 🗆 1	If no, explain:
Apprical Signation? Yes Q No Explain:	susone pooling
Is this a potential Problem Area? Yes 2 No D Explain:	suson (pooling
	HYDROPHYTIC VEGETATION? Yes ♥ No □
EGETATION	
Dominant Species Ind. Status Stratum Rel. % Com 1) Cyn des Fac Leab 25	
	_ 6)
2) Cypin Fich Las 17	
3) Lythys Fra Lab 17	
4)	
Percentage of dominant species that are OBL, FACW, and/or F	AC [excluding FAC-]: $\frac{9/3}{2} = \frac{15.5}{9}$
Comments:	
YDROLOGY Recorded Data: Yes □ No X if yes,	ter in pit: (in.) Depth to saturated soil: (in.)
Primary Indicators: 3 Introduced 2 Saturated in Upper 12 in.	🔾 Water Marks 🗆 Drift Lines 🗷 Sediment Deposits 🗅 Drainage Patterns in Wedand
Carnedon Indicators (2 or more required):	
Oxidized Root Channels in Upper 12 in. Water-stained Le	aves 🗆 Local Soil Survey Data 🗇 FAC-Neutral Test. 🗷 Other <u>algalumt</u>
Comments:	
DILS	HYDRIC SOILS? Yes I No.2
Springphase: 147 Fiddyment-Karehang Lozan	5. 2 to 9 parent stopes Drainage Class: well drained
Taxonomy (Subgroup): Fire-Lozung mixed +	Confirm Map Type: Yes Q No Q
☐ Histosol ☐ Histic Ecipedon ☐ Sufidic Odor ☐ Aquic Mais	sture Regime 🖸 Reducing Conditions 🖾 Gleyed/Low Chroma Colors 🖾 Concretion
☐ High Organic Content in Surface Layer in Sandy Soils ☐ Or	gamic Streaking in Sandy Soils Q Listed on Hydric Soils List Q Other
inclusions [Series/Phase]: Alamo (lunions in	On Hydric Soils List: Yes A No I
Depth (in.) Horizon Matrix Color M 0 - 4	Mottle Color Mottle (Abund/Contrast/Size) Texture, Concretions, Structure
Comments:	
DECISION *	WETLAND / WATERS DETERMINATION? Yes No O
cationale: method based on plants an	d definition hydrology
General comments:	
•	Wetland Type:

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HERBACEOUS COVER / DOMINANCE WORK SHEET

			'	
Species Observed	Actual Cover	Relative Cover	<u>COVER:</u>	
Lyn dae	15	25	Vegetation	<u> 30</u>
Choesa	73	17	Bare Ground	
Polmon	5	8	Rocks	<u>.</u>
1, + hy 5	/3		Other	
/	5		TOTAL =	100%
- Lol mu/		8	1	
Plu st		<u> </u>		
them er.		Z	1	
Pol are				
	<u> </u>			
<u> </u>			1	
				
TOTAL SUM (Σ) =	<u></u>	100%		
				
-				
Burin (Burning Outer)	Relative Cover	Cumula <u>tive Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Cumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u> Cumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Çumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Cumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Gumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Gumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Cumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Gumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Gumulative Cover</u>	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Gumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	<u>Gumulative Cover</u>	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Gumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	Gumulative Cover	Indicator Status	Dominants
Species (Descending Order)	Relative Cover	<u>Gumulative Cover</u>	Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants
Species (Descending Order)	Relative Cover		Indicator Status	Dominants

ECORP Consulting, Inc.	ROUTINE WETLAND DELINEATION
ENVIRONMENTAL CONSULTANTS	
Project/Site: Whispering Creek	
and inner Towns Development	Field Investigator(s): K. Kwan
County: Place State: CA	Plant Community: Annal Grasiled
Oradis): Citrus Height, CA	Section/Township/Range: T. 10120-th R. CEast, Sec. 17
Do normal environmental conditions exist site? Yes No O If	no, explain:
Atypical Situation? Yes D No & Explain:	<u> </u>
Is this a potential Problem Area? Yes 🗆 No 🖈 Explain:	
ÆGETATION	HYDROPHYTIC VEGETATION? Yes D No.2
Dominent Species Ind. States Stratom Rel. % Cover	Dominant Species Ltd. Status Stratum Rel. % Cover
1) Tracks N/L hab. 35	5)
2) Brodie ML has 26	6)
•	
3)	
4)	8)
Percentage of dominant species that are OBL, FACW, and/or FAC	
Comments:	
Primary Indicators: □ Inundated □ Saturated in Upper 12 in. □ Secondary Indicators (2 or more required):	in pit: (in.) Depth to saturated soil: (in.) Water Marks
Comments:	
DILS	HYDRIC SOH.57 Yes O No. Z
	2 to 9 court stopes Drainage Class: well drained
Series/Priase 17 1 The laws wired the	cuic Typic Deriveralfs Confirm Map Type: Yes 1 No 1
☐ Historol ☐ Histic Enipedan ☐ Sufidic Odar ☐ Aguic Moistu	are Regime Reducing Conditions Gleyed/Low Chroma Colors Concrete
☐ High Organic Content in Surface Laver in Sandy Soils ☐ Organ	nic Streaking in Sandy Soils 🗆 Listed on Hydric Soils List 🔾 Other
Inclusions [Series/Phase]: Alama inclusions in	depression On Hydric Soils List: Yes A No 🗆
	tile Color Montle (Abund/Contrast/Size) Texture, Congretions, Structure
Depth (in.) Horizon Matrix Color More O	
0-6 10144/3 -	WETLAND/WATERS DETERMINATION? Yes □ No.
Comments:	

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HERRACEOUS	COVER .	/ DOMINAN	ICE WORK SHEE
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<u> </u>				
Species Observed Bro die Tax cap Lol mel Gre set Bro har And fat Holzir Vic spe	Acmal Cover 30 40 /5 /0 5 5	Relative Cover 26 35 13 4 9 4 4	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ) = <u>// 5</u>	100%		<u> </u>
Species (Descending Order)	<u>Refative Cover</u>	Cumulative Cover	Indicator Status	<u>Dominants</u>
				<u> </u>
				 .

Wetland Type: _

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HERBACEOUS COVER /	DOMINANCE	WORK SHEET

Species Observed Pol mon Rum cr. Jun eff Lypera Lol mul Bro W/ Epi cil Typera Lyn duc	Actual Cover	Relative Cover 45 9 9 9	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ) =	//O Relative Cover	100% Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)				
	· · · · · · · · · · · · · · · · · · ·			

Wetland Type: _____

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DEBRACEOUS	COVER	/ DOMINANCE	WORK SHEE
	~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		

				
Species Observed Tal Cap Bro hor Lic int Ep: Cil Are fat Cya dec	Acmal Cover 43 15 5	Relative Cover 78 9 4	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ) =		100%		
Species (Descending Order)	Relative Cover	Camulative Cover	Indicator Status	<u>Dominants</u>
		Camulative Caver	Indicator Status	<u>Dominants</u>
			Indicator Status	<u>Dominants</u>
			Indicator Status	<u>Dominants</u>
			Indicator Status	Dominants
			Indicator Status	Dominants

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HERRACEOUS COVER	/ DOMINANCE WORK SHEET
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Species Observed Typ lat Pol per Epi cil Lyp era Pana cri Pana pol Lyp dan	Actual Cover 57 5 5 5 5 5 5 5 6 7 10 10 10 10 10 10 10 10 10	Relative Cover (7 8 6 8 8	COVER: Vegetation Bare Ground Rocks Other TOTAL =	_
TOTAL SUM (Σ) : Species (Descending Order)	Relative Cover	100% Cumulative Cover	Indicator Status	<u>Dominants</u>

100%

ECORP Consulting, Inc.

ROUTINE WETLAND DELINEATION

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Project/Site: Wh.	specing 0	<u> مومدلا</u>	<u> </u>	Date:	10/24/	10 10	_ Saubie Four	<u> </u>
Applicant/Owner: 1	mae Devel	lopran-t			(dgator(s):	<u> </u>	9 60511	
County: Places		State: _	<u> </u>		munity:		2 Grasie	<u> </u>
Quad(s):	s Heights	, cA					م <u> </u>	
Do normal equiposment	al coeditions c	xist site? Yes	No 3 Ifn	o, explain:				
: at	. ET No. DX EV	alain:					<u> </u>	
Atypical Situation? The Is this a potential Problem	em Area? Yes	⊐ ‰≱ Ex	aplain:		 			 -
EGETATION —	<u></u>							ON? Yes 🗆 No 🖻
	ind Status	Stratum	Rel. % Cover	Domin	unt Species	Ind. Status	Stratum Rol. %	Cover
Dominant Species 1) Tak cup								_ _
2)				_				
3)				•				
4)	. 			§)				
Percentage of dominan	i species that ar	e OBL, FAC	W, and/or FAC	excluding F	'AC-]:	// =_	%	
Сотатева:						_		
				<u> </u>				
YDROLOGY				<u> </u>	<u> </u>			Y? Yes □ No 🗷
Recorded Data: Yes	No. 155 55 440			9		<u> </u>	·	
Depth of surface water:	Mohaf IT Aca.	('-) D-49	to fore water	in pitr	(in.)	Depth to sat	urated soil:	(in.)
Primary Indicators:		_ (191) Treben	10 Hes water	Warer Marks	☐ Drift Line	s Cl Sediment	Deposits 🗆 Draina	ge Patterns in Wedand
			ррет 12 м. С	***************************************				
Secondary Indicators (2 <i>or more requ</i> nals in Hoses 1	ureay. 2 in □ Water	r-stained Leav	es 🗆 Local Sc	oil Survey Da	ita 🗖 FAC-Nei	utral Test 🗆 Other	
Comments:	ي دونون المن الحد	- السول	to lat	· due , a	ice _		_ _ _	
OILS							HYDRIC SOI	LS? Yes □ No.427
Series/Phase: 147	Cut L	V J		2 4 9	a_e +	stopes !	Drainage Class: 🔟	ell drained
Series/Phase: 14 + 1 Taxonomy [Subgroup]:	<u> Addymani</u>	- (<u>د جدہ شاکی</u> مامد فی	mic Tu air	Durine	165	Confirm Map Туре:	Yes □ No □
Taxonomy [Subgroup]: ☐ Historol ☐ Histor E		my Misk	A STATE OF THE STA	- Parime 1	Peducina C			
☐ Histosol ☐ Histic E	pipedon 🗆 Sui	idic Odor 🔾	Aquic Moistii	re Kegune	in Sandy Soi	1s □ Listed of	Hydric Soils List	Q Other
☐ High Organic Conter	it in Surface La	yer in Sandy	ons □ Orga	alena <u>42351</u>			_ On Hydric Soils l	List: Yes 🔀 No 🗆
Inclusions [Series/Phase				tle Color		und/Contrast/Siz		ccetions, Sincolore
<u>Depth (ko.)</u> 6 - 4	<u>Horizon</u>	Macrix Color	1910)	<u> </u>	1045/144 1/ 241			
		<u> </u>						
. -	 —							
								
	76 de							
Comments:			····		WETLAN	D/WATERS	DETERMINATIO	NT Yes O No LA
DECISION *	من نسام	+ me +		<u> </u>				
Rationale:	الدسيعا وي	adia	cont to	06				
General comments:	4.				and Type: _			
	<u> </u>					Сор	yright ©2002 ECO	RP Consulting, Inc.

HERBACEOUS COVER / DOMINANCE WORK SHEET

			1	
Species Observed The cap Bro hor Lyndar Ere set Itol vir Lan ser Are fit	Acmal Cover 75 26 5 6 10	Relative Cover 58 19 4 4 4	COVER: Vegetation Bare Ground Rocks Other TOTAL =	
TOTAL SUM (Σ))= /30	100%		
	- · · · · · · · · · · · · · · · · · · ·	Completive Cover	Indicator Status	<u>Dominants</u>
Species (Descending Orger)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Dominants</u>
Species (Descending Order)	Relative Cover	Cumulative Cover	Indicator Status	<u>Домірант</u>

ECORP Consulting, Inc.

ROUTINE WETLAND DELINEATION

ENVIRONMENTA	AT CONST	CIANIS			, ,			5.6
Project/Site: Wh.	pence C	re ele	<u> </u>	Date:	10/64/	<u> 2</u>	_ Sample Point:	<u>08</u> .
						سينصرين كالكا		
P.		Storer	CA	Plant Com	munity:	12-4-2	مستر ووحدين ح	<u> </u>
Litrus	1400 47	, CA		Section/To	wuzara/kraa	ge:	511)	
		tan atan 9 Mara 🖰	Mi Mar III If n	o expisia:				
Do normal environmenta Atypical Situation? Yes Is this a potential Profile	□ No. 24. Ex	olain:	_	<u></u> .		 _		
To this a notential Proble	m Area? Yes	Mo □ Exp	اعمر : lain:	termit	<u>nd -filo</u>	<u>مسکم : س</u>	in day see	2-2-2-3
				.		HYDROPHY	TIC VEGETATIO	N? Yes 🗷 No 🗆
ÆGETATION -	···			Damis	<u>ant Species</u>			
<u>Domingat Species</u>	Ind Status		(el. % Coyer					
1) Lypera	Fren							
2) (Lom won	Frew	<u> </u>	<u>/3</u>	6)				
3) 54/ 900	Fach	Tree	/ 3	7)				
4)				8)		3/3 =		
Percentage of dominant	species that are	OBL. FACW	, and/or FAC	C (excluding F	'AC-]:	-/3 _=_/	33 %	
Comments:						<u> </u>		<u></u>
							<u> </u>	
<u> </u>					<u> </u>	WETL	ND HYDROLOGY	Y? Yes 🖭 No 🗀
110000001		•				·	<u>-</u>	
Recorded Data: Yes 🖸	No Œ. If yes, _	_				The ships and	uested soil:	(in.)
Depth of surface water	_ _	(in.) Depth (o ires water	in pic	(1p.,) Depin to sai	Denosits Drainage	Patterns in Wetland:
Depth of surface water: Primary Indicators:			per 12 in. 🗆	Water Marks	a bun cin	es be semment	pryosin ja arang	
Secondary Indicators (2 Oxidized Root Chann	ar more requ	ired): —		Dianal Si	on Survey D	ota 🗇 FAC-Nei	rtral Test 🖵 Other	
					OIT OUT LEY D	4m - 1, 120 1.10		<u> </u>
Comments:							HYDRIC SOIL	S? Yes Z No □
ons —						-1- -		
Series/Phase: 147 F	idalyment-	<u>. Karuban</u>	(5-Zm)	<u> </u>	<u> </u>	Scales ?	Pramage Class. For	Yes 7 No 0
	ويسرار ميذيك	MALES	and the	ever by pic	<u>ي جويو اروموموا</u> ،	14-7	Contimum Mah 13he.	100 - 110 -
Taxonomy [Subgroup]: ☐ Histosol ☐ Histo Ep	ipedon 🗆 Suf	idic Odor 🏂	iquic Moisto	re Regime 📮	Reducing C	Conditions 🖵 C	neyeurow Chronis.	Other
☐ High Organic Content	in Surface Lay	yer in Sandy S	oils 🚨 Orga	nic Streaking	in Sandy So	113 17 1726GO DE	_On Hydric Soils Li	ist: Yes 🔀 No 🛘
Inclusions [Series/Phase	: <u> </u>	(markenselve	<u> </u>	ملعبي مولاية	20.00			retions. Structure
-		Matrix Color	<u>Mo</u> s /ህ ソ ሊ	tie Color	Mottle (At	und/Contrast/Siz	17414	
<u>D - G</u>		3412113	70770					
				<u> </u>	 			
	 -		. 					
Comments:			<u> </u>		THE WAY	m /XEATERS	DETERMINATIO	N? Yes de No 🗆
DECISION *	14 . 1		1		WEILER	1D / 17 K1 13400		
Rationale: all co.	renu s	-						
General comments:			<u> </u>	Wett	and Type:	her fl	and swal	<u> </u>
	<u> </u>						ryright ©2002 ECOR	P Consulting, Inc.
						Cop	Andre Andre Hoos	

HERBACEOUS COVER / DOMINANCE WORK SHEE	HERBACEOUS COVER	/ DOMINANCE WORK SHEET
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Species Observed Lap & Ca Rum con Typ spe Sin asp Aum cri Asi mi Lac sen Sal goo Pap fra	Actual Cover 42 73 5 5 7 10 47	Relative Cover 50 13 6 6 6 13	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (Σ) = Species (Descending Order)	So Rejative Cover	100% Cumulative Cover	Indicator Status Do	minants

ROUTINE WETLAND DELINEATION ECORP Consulting, Inc. Project/Site: Whispening Creek Dete: 10/24/32 Sample Point: 09 Field Investigator(s): K. K. Luan Applicant/Owner Towns Development County: Place State: CA Plant Community: Annul Coss and Quad(s): Citros Heights, CA Section/Township/Range: T. 1020art, R. GEast, Sec. 17 Do normal environmental conditions exist site? Yes 🗵 No 🗆 If no, explain: ______ Atypical Situation? Yes 🗆 No 🕱 Explain: _____ Is this a potential Problem Area? Yes 🗆 No 🕱 Explain: _____ HYDROPHYTIC VEGETATION? Yes ☐ No. VEGETATION Sharum Rel. % Cover Ind. Stame Dominant Species Strains Rel. % Cover Dominant Species Ind. Status 1) Tackap N/L herb. 7) ______ WETLAND HYDROLOGY? Yes O No.2 RYDROLOGY -Recorded Data: Yes 🗆 No 🛨 if yes, ______ Depth of surface water: _____ (in.) Depth to free water in pit: _____ (in.) Depth to saturated soil: _____ (in.) Primary Indicators: 🔾 Inundated 🗅 Saturaced in Upper 12 in. 🗅 Water Marks 🗅 Drift Lines 🗆 Sediment Deposits 🗅 Drainage Patterns in Wetlands Secondary Indicators (2 or more required): 🗆 Oxidized Root Channels in Upper 12 in. 🗆 Water-stained Leaves 🖵 Local Soil Survey Data 🔾 FAC-Neutral Test 🗅 Other _____ HYDRIC SOILS? Yes □ No. oOILS 1 Series/Phase: 147 Fiddyment-Karebeng Coams, 2 to 9 percent slopes Drainage Class: well drained Taxonomy [Subgroup]: Fire-Lowing, mixed, whermic Typic During 1 - Confirm Map Type: Yes a No D 🖾 Histosol 🚨 Histic Epipedon 🖾 Sufidic Odor 🖾 Aquic Moisture Regime 🖾 Reducing Conditions 🖵 Gleyed/Low Chroma Colors 🗀 Concretions 🔾 High Organic Content in Surface Layer in Sandy Soils 🗘 Organic Streaking in Sandy Soils 🗘 Listed on Hydric Soils List 🗘 Other 🔔 Inclusions [Series/Phase]: Alamo (nellestrons in depression ______ On Hydric Soits List Yes X No [Texture, Concretions, Structure Mortle (Abund/Contrast/Size). Mottle Color Matrix Color Deoth (in.) Horizon. 15414/3

24- 28

Wetland Type: ____

Comments: ___

Commission of the Constitute o

WETLAND / WATERS DETERMINATION? Yes I No. 4

HERBACEOUS COVER	/ DOMINANCE	WORK SHEET

		HEKBACEGGG C		
Species Observed The Conf Lee Sen Bro Lon Tr: his Ex se + And fort	Acqual Cover 75 5 20 5	Relative Cover 63 4 17 4 4 4	COVER: Vegetation Bare Ground Rocks Other TOTAL =	100%
TOTAL SUM (∑) = Species (Descending Order)	/ Z-O	100%	Indicator Status Do	minants

APPENDIX B

Plant List

Whispering Creek – Wetland Delineation Plants Observed at Data Points

			Indicator
a falou	Scientific Name	Common Name	Status
Abbr.	Avena fatua	Wild oat	N/L
AVE FAT	•	Little quaking grass	FACU
BRI MIN	Briza minor	Ripgut brome	N/L
BRO DIA	Bromus diandrus	Soft brome	FACU-
BRO HOR	Bromus hordeaceus	Chicory	NI
·CIC INT	Cichorium intybus	Bermuda grass	FAC
CYN DAC	Cynodon dactylon	Tall flatsedge	FACW
CYP ERA	Cyperus eragrostis	Hairy willow-herb	FACW
EPI CIL	Epilobium ciliatum	Turkey mullien	N/L
ERE SET	Éremocarpus setigerus	Sticky tarweed	N/L
HCL VIR	Holocarpha virgata	Soft rush	OBL
· JUN EFF	Juncus effusus	Prickly lettuce	FAC
LAC SER	Lactuca serriola	Ryegrass	FAC*
TOT WAT	Lollum multiflorum	Hyssop loosestrife	FACW
LYT HYS	Lythrum hyssopifolium	Slender popcorn-flower	OBL
. PLA STI	Plagiobothrys stipitatus	Prostrate knotweed	FAC
-POL ARE	Polygonum arenastrum	Lady's thumb	FACW
POL PER	Polygonum persicaria	Annual rabbit-foot grass	FACW+
POL MON	Polypogon monspeliensis	Fremont's cottonwood	FAC+*
POP FRE	Populus fremontii	Clustered dock	FACW
RUM CON	Rumex conglomeratus	Curly dock	FACW-
RUM CRI	Rumex crispus	Fiddle dock	FAC+
MAN BATE	Rumex pulcher	Goodding's black willow	FACW
SAL GOO	Salix gooddingii	Prickly sowthistle	FACU
SON ASP	Sonchus asper	Medusahead grass	N/L
TAE CAP	Taeniatherum caput-medusae	Rose clover	N/L
TRI HIR	Trifolium hirtum	Broad-leaf cattail	OBL
TYP LAT	Typha latifolia	Cattail	OBL
TYP spe.		Vetch	-
VIC_spe.	Vicia species		

OBL = Collgate Wetland; occur almost always (estimated probability >99%) under natural conditions in wetlands.

FACW = Facultative Wetland; usually occur in wetlands (estimated probability 67%-99%) under natural conditions in wetlands.

FAC = Facultative; equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).

FACU = Facultative Upland; usually occur in non-wetlands (estimated probability 67%-99%).

UPL = Obligate Upland; occur almost always (estimated probability >99%) In non-wetlands in the region specified.

NI = No indicator was recorded for those species for which insufficient information was available to determine a status.

-- = May or may not occur in wetlands depending upon species. A positive (+) sign indicates a frequency toward the higher (more frequently found in wetlands) and of the facultative categories. A negative (-) sign indicates a frequency toward the lower (less frequently found in wetlands) and of the facultative categories. An asterisk (*) indicates a tentative assignment based upon limited information or conflicting review.

APPENDIX C

Wetland Delineation

NOT INCLUDED

ATTACHMENT B

Section 7 Consultation Information

Information to Support Section 7 Consultation Whispering Creek Project, Placer County, California March 12, 2003

This document outlines potential impacts and proposed mitigation for potential impacts to vernal pool fairy shrimp (*Branchinecta lynchi*) and other potentially occurring federally listed vernal pool species on the Whispering Creek project site in Placer County.

PROJECT LOCATION

The Whispering Creek property is a 36-acre undeveloped parcel within unincorporated western Piacer County, west of Cook-Riolo Road and east of Walerga Road. The subject property is bounded on the south by the Placer/Sacramento County line and single family-homes that front Meandering Way, on the west by undeveloped lands and rural residences, on the north by PFE Road, and on the east by Oly Lane and rural residences. This site corresponds to a portion of Section 17 of Township 10 North, Range 6 East of the Citrus Heights, California 7.5-minute quadrangle (U. S. Department of the Interior, Geological Survey) (Figure 1). This location is not within the recently proposed Critical Habitat for the vernal pool fairy shrimp.

PROJECT DESCRIPTION

The following is a description of the action to be considered:

The proposed project involves the development of 57 single-family lots with a recreational area, and will preserve two open space areas surrounding wetlands (1.048 acres of seasonal wetland and 0.070 acre of seasonal marsh) and waters (0.355 acre of intermittent drainage) and totaling approximately 6.97 acres (Figure 2. *Proposed Impacts and Preservation Plan*). It will be necessary to place three road crossings and several outfalls within this preserve area. There are approximately 0.003 acre of seasonal marsh and 0.015 acre of intermittent drainage located within an easement held by the Sacramento Municipal Utility District. These wetlands/waters have been classified as "avoided", as they are not subject to long-term preservation.

LISTED SPECIES/CRITICAL HABITAT

The following is a description of the listed species or critical habitat that may be affected:

Although considered unlikely due to its hydrologic connection to a drainage feature, the seasonal wetland (depicted in Figure 3) could be considered potential habitat for vernal pool fairy shrimp (*Branchinecta lynchi*) and/or the vernal pool tadpole shrimp (*Lepidurus packardi*). However, the project site is not located within recently proposed Critical Habitat for the vernal pool fairy shrimp.

IMPACTS TO LISTED SPECIES/CRITICAL HABITAT

The following is a description of the manner in which the action may affect listed species:

A total of 0.007 acre of what we have identified as potential habitat for federally listed species (seasonal wetland), would be directly impacted by project construction. The impacts will be due to grading and paving. There are no other potential habitat areas within the project area.

Table 1. Proposed Impacts to Federally Listed Species Habitat			
Туре	<u>Existing Ha</u> bitat	<u>Proposed Impacted Habitat</u> Direct	
Wetlands Seasonal Wetland	0.007	<u>0.007</u>	
Total:	0.007	0.007	

Regarding cumulative impacts, which are defined as those impacts for future state, local and private actions affecting endangered and threatened species that are reasonably certain to occur the action area; we are unaware of any future action that would be likely to preclude the survival and recovery of the vernal pool fairy shrimp and/or vernal pool tadpole shrimp.

For impacts to potential habitat for federally listed species habitat (Figure 3), the applicant proposes to assume presence and to purchase mitigation credits at an agency-approved mitigation bank, as outlined below.

Table 2. Proposed Preservation and Creation Acreages for Proposed Impacts to Federally
Listed Species Habitat

Listed Species Habitat				
	Proposed Mitigation ¹			
	Creation	Preser <u>vation</u>		
Wetland Type	1:1 (Direct)	2:1 (Direct)		
Seasonal Wetland	0.007	0.014		
Total:	0.007	0.014		
All impacts to federally listed species habita	at (whether vernal pool or drain:	age swale) are to be mitigated by the		

All impacts to federally listed species habitat (whether vernal pool or drainage swale) are to be mitigated by the purchase of vernal pool credits.

HABITAT

Listed species or Critical Habitat may be directly impacted due to fill of a seasonal wetland area.

REPORTS

The following is a summary of reports that have been prepared for the site:

There have been no written reports prepared for this site beyond the information provided in the "*Dry Creek West Placer Community Plan Environmental Impact Report*". A copy of the Vegetation/Wildlife discussion for this report is provided as Attachment A, to this Attachment B of the Pre-Construction Notification.

OTHER INFORMATION

The following is other relevant information regarding the action, the listed species, or the critical habitat:

The project site is not located within recently proposed Critical Habitat for the vernal pool fairy shrimp. No elderberry shrubs are known to occur at the site; therefore no impacts to the federally listed Valley elderberry longhorn beetle are anticipated.

ATTACHMENT A

Dry Creek West Placer Community Plan Environmental Impact Report Vegetation/Wildlife Discussion

CHAPTER 12. VEGETATION/WILDLIFE

Setting

Vegetation mapping was derived from information prepared by the Soil Conservation Service in cooperation with the Placer County Resource Conservation District, and wetlands mapping was prepared by the U.S. Department of Interior, Fish and Wildlife Service. A general wildlife field reconnaissance was conducted with Mr. A general wildlife Biologist for the State Department of Dale Whitmore, Wildlife Biologist for the State Department of Fish and Game. Mapped vegetation categories consist of the following:

IRRIGATED CROPLAND

<u>Vegetation</u>

This use includes all lands that are irrigated for crop production including field crops (rice and other small grains), fruit, vineyards, buts and berries.

wildlife

the wildlife habitat value of cropland depends on the type of crop, pesticide use, farming practices, and surrounding habitats and land uses. In general, row crops offer some food and cover for wildlife but usually have a lower habitat value than other types of cropland.

Orchards provide very little cover for small mammals because herbaceous vegetation is usually removed. Many bird species, however, including the mourning dove, northern mockingbird, scrub jay, and northern flicker, can feed, nest, or roost in orchards.

Seed crops, such as rice, wheat, corn, milo, and safflower, provide food for various birds, including waterfowl, ring-necked pheasants, and mourning doves, and small mammals, such as California ground squirrels, California voles, and deer mice. When these fields have been harvested and cover is low, raptors such as black-shouldered kites and red-tailed hawks prey on the small mammals. Fence row cover along the undeveloped edges of these fields provides additional wildlife habitat.

IRRIGATED HAY AND PASTURE

Vegetation

Haylands are arable lands managed for the production of forage crops that are machine harvested. These crops may be grasses, legumes, or a combination of grasses and legumes.

Pastureland is land used primatily for produced, or native forage plants for livestock grazing. Pastureland may consist of single species in a pure stand, grass tureland may consist of single species in a pure stand, grass tureland may consist of single species in a pure stand, grass tureland may consist of single species in a pure stand, grass form of fertilization, weed control, reseeding, or renovation is form of fertilization, weed control, reseeding, or renovation usually a part of pasture management in addition to grazing management.

Wildlife

wildlife diversity is similar to that described under irrigated cropland. After these lands have been plowed, however, habitat, except along fencelines, is eliminated, and wildlife is temporarily displaced.

DRY CROPLAND

Vegetation

Lands where gravity flow irrigation water is not available. These lands are cropped to wheat and cats with the cats usually being cut as a hay crop.

<u>Wildlife</u>

Wildlife diversity is similar to that described under irrigated cropland.

GRAZELAND

<u>Vegetation</u>

Grazeland is non-irrigated pasture or rangeland predominantly used for livestock grazing. Non-Native grasses, including soft chess, ripgut brome, red brome, foxtail barley, and wild oats dominate the annual grassland vegetation. Codominant grassland forbs include filaree, bur-clover, clover, and fiddleneck.

W<u>il</u>dl<u>if</u>e

Grazed grasslands are preferred by a few species, such as the California ground squirrel, killdeer, and horned lark. The annual grasslands provide important foraging habitat for numerous avian species, including western bluebird, loggerhead shrike, avian species, including western bluebird, loggerhead shrike, red-tailed hawk, and black-shouldered kite. The foraging value of the annual grasslands is enhanced for many species because this habitat type is close to mixed riparian and oak woodland habitats, where suitable nesting and roosting cover is available. Shrubs, trees, and small rock outcrops scattered throughout the annual grasslands provide perch sites.

Cracks and crevices in the small rock outcrops provide cover for reptiles, such as the western fence lizard and western rattle-snake.

Stock ponds provide drinking, foraging, and bathing opportunities in the annual grasslands for species, such as the Pacific treefrog, dark-eyed junco, and striped skunk.

RIPARIAN AND WOODLAND

Vegetation

The plan area contains habitat that possibly supports two different riparian associations: mixed riparian and valley cak riparian. Mixed riparian woodland occurs primarily along creek drainageways and is characterized by a narrow strip of trees and shrubs. The dominant overstory vegetation incudes cottonwoods, willows, white alder, box elder, oregon ash, western sycamore, blue elderberry, and valley cak. The understory layer is comprised of shrubs characteristic of the general geographic region. Dominants include arroyo willow, sandbar willow, buttonbush, wild rose, and saplings of overstory species. (A more complete listing of vegetation species, common to the Plan area is contained in Appendix E).

Wildlife

The riparian woodlands are one of the most important wildlife habitats. Like the oak woodland, the mixed riparian habitat provides a multitiered canopy. The various structural tiers are used by a diverse group of avian species to satisfy their life requisites. The valley cak riparian woodlands typically do not have as extensive a shrub layer as the mixed riparian stands. Snags large living cottonwoods, white alders, and valley oaks provide nesting and foraging habitat for a diversity of woodpecker species, including the acorn woodpecker, northern flicker, Nuttall's woodpecker, downy woodpecker, and red-breasted sapsucker. (A more complete listing of wildlife species common to the Plan area is contained in Appendix F).

Riparian overstory trees provide possible nesting and roosting habitat for species, such as the red-tailed hawk and Swainson's hawk that forage primarily in the annual grasslands.

Berries produced by many of the shrubs in the diverse understory of the mixed riparian woodlands provide an important winter food source for various wildlife species. Dense, continuous shrub thickets, such as those formed by Himalaya-blackberry, provide protection from predators for species, such as the California quail and rufous-sided towhee.

species) is a probable resident in the area as elderberry smidus The valley elderberry longnorn beech ... are common. the beetle has been recorded along the Feather River several miles north of the Plan area.

The giant garter snake is a California-listed Threatened Species. It is the most aguatic of garter snake and is confined to areas around permanent fresh water. Several specimens have been found

Dry Creek provides not only a source of drinking water for wildlife, but also possible feeding, breeding, and resting habitat for various reptiles and amphibians, including the western aquatic garter snake, California newt, and bullfrog.

Adult chinook (king) salmon ascend Dry Creek in October - December depending on when the fall rains increase run-off and decrease water temperatures to attract them. Salmon spawn in Dry Creek through Roseville and in the tributary streams upstream from Roseville. Eggs are in the gravel for about 50 days. Fingerlings rear in the stream until they are about three inches long when they smolt and swim downstream to the ocean.

Ducks, American robins, black phoedes, mourning doves, gray squirrels, opessums, raccoons, striped skunks, shrews, coyotes, black tail deer, gray foxes, and Pacific treefrogs are among the diverse group of species that could occur in the riparian wood-URBAN ARSA lands.

These developed land are typically devoid of most native vegeta-Vegetation tion and landscaped primarily with ornamental plant species.

The trees and shrubs used in residential landscapes attract wildli£≘ wildlife species that are able to tolerate human disturbance, exploit human food resources, or use man-made structures for nesting and roosting. The house finch, mourning dove, scrub jay, northern mockingbird, Brewer's blackbird, American robin, deer mouse, and introduced species, including the European starling, House sparrow, and House mouse, find suitable habitat within this

RURAL/URBAN AREA

Lands which are used primarily for residences and various types Vegetation of agricultural pursuits including animal husbandry and small livestock farming. Vegetation ranges from introduced ornamentals to irrigated pasture and dryland grazing.

Wildlife

Domestic pets limit habitat acceptability to species tolerant of human presence. Pocket gopher, Scrub jay, White crowned sparrow, Common kingsnake and Western fence lizard are likely to frequent this area.

VERNAL POOLS

A detailed vernal pool study of the plan area was not conducted. Information prepared by Dr. Robert F. Holland for the California Native Plant Society indicates the majority of land within the plan area has a low probability of containing vernal pools. This coupled with the intensive agricultural activities (including plowing and land leveling) ongoing within the area supports the contention that vernal pools are limited in distribution.

One vernal pool within the plan area has been identified on a previously proposed project, "Casa Grande". The project was located on the south side of Vineyard Rod between Crowder and Cook Ricle Road.

Vegetation

"The site's existing vernal pool occurs roughly 1,000 feet east of the property's western edge, and halfway between the site's north and south boundaries. It consists of approximately one-third of an acre of seasonally flooded ground within an area of typical grazed annual grassland. During the original survey in late February, the water formed a small pond approximately one foot deep, and contained a dense floating mat of aquatic vegetation and an extensive tadpole population. Most of the plant species growing in and around the pend could not be positively identified at this time, but tentative identifications for this site include mudwort (Limosella acuatic), Callitriche longipedunculata, and a coyote thistle (Eryngium articulatum). These three plants are good vernal pool or aquatic habitat indicators. It is likely that additional vernal pool taxa are also present, but were not observed because of the early date of the survey, and consequently the premature phenology of the plants in such a habitat. As the season progresses and the weather becomes warmer, the pond's water should recede, fostering the development of other species as yet undetected. Other moist site taxa include ranunculus mivicatus, plagiobothyrs stipitata var. micransa, bois du valia sp. stricta, deschampsia danthonioides, juncus bufonias, briza minor."1

Wildlife

Historically, the emphasis of research has focused on the more conspicuous assemblage of plant species which are unique to the

vernal habitat, and consequently little is known about the invertebrate populations which occur within the pool environments. Except for the Delta green ground beetle (Elaphrus viridis), which is classified as threatened by the Fish and Wildlife Service, no invertebrate species associated with vernal pool habitat are classified as rare, threatened, or endangered by the Fish and wildlife Service, and no species are included on any candidate wildlife Service, and no species are included on the consideration. The Delta green ground beetle is list for future consideration. The Delta green ground beetle is presently only known to occur in Solano County in conjunction with large vernal pools on pescadero soils. No beetles have been reported in the Sacramento region, and the type of pools which occur in the Roseville area are not consistent with the known habitat of the beetle.

Predominant invertebrates which occur in vernal pools include crustaceans and insects. Common crustaceans which have been reported (FWS, 1987) include fairy shrimp, water fleas, clam shrimp, seed shrimp, and rotifers. A more complete listing of crustacean species is appended to this report.

Similar to crustaceans, numerous types of insects are supported by vernal pool habitat. The predominant insects identified in vernal pools (FWS, 1987) include dragonflies, water beetles, mosquitoes, mayflys, water bugs, water boatman, water striders, and back simmers.

WETLANDS

Three types of wetlands occur in the plan area: freshwater marshes, seeps, small reservoirs and ponds. Marsh and seep habitats are of special importance because of their value to dependent wildlife and plants and because of the scarcity of these habitats.

Some wetlands that fall under the jurisdiction of the U.S. Army Corps of Engineers (COE) under the federal Clean Water Act are seasonal wetlands. Such areas can be dry most of the year. Such sites are recognizable from the types of plants (wetland plants) that dominate the site, the hydric soils (soils that were developed in water-saturated conditions), and inundation or saturation for seven days a year during the growing season. Seasonal wetlands may appear to be ordinary grasslands to the causal observer. Inspection of sites for wetland characteristics must be undertaken by qualified botanists or wetland scientists trained in the COE methodology.

Vegetation

Freshwater marshes are characterized by year-round surface or subsurface water that supports a herbaceous flora of emergent aquatic vegetation. This habitat is dominated by cattails and tules, while associated vegetation can include rushes, smartweed, curly dock, and ludwigia.

Seeps probably occur on hillsides in annual grasslands and bluock woodlands. Seeps have vegetation similar to that found i marshes but lack cattails and tules. The vegetation is dominate by various annual grasses (e.g., rabbits-foot and foxtai grasses) and a mix of forbs, such as curly dock, smartweed, cut leaved geranium, and watercrass.

The land surrounding small reservoirs and ponds typicall provides habitat for riparian-dependent species, such as willows cottonwoods, rushes, tules, and a host of other mesic-adapte herbaceous flora and shrubs. Aquatic plants are also probabl present. Communities vary in species composition from site the site, depending on conditions provided by each microenvironment.

<u>Wildlife</u>

Freshwater marshes and seeps are among the most important wildlife habitats in the DC-WPCP area, particularly for those species that are wetland dependent, the total acreage of wetland habitats has been reduced considerably at both the regional and statewide levels.

Seeps and seasonal marshes provide drinking, foraging, and bathing opportunities for wildlife although standing water may not be available year round.

the perennial freshwater marshes and ponds provide standing water in which bullfrogs, Pacific treefrogs, and possibly California red-legged frogs breed. These species are preyed on by aquatic and common garter snakes, great blue herons, and raccoons. The cattails and other emergent vegetation typical of perennial freshwater marshes provide foraging perches for black phoebes and nesting sites for marsh wrens and red-winged blackbirds. The submergent vegetation and aquatic invertebrates of the perennial freshwater marshes and ponds are fed on by waterfowl.

Impact

AGRICULTURAL LANDS

Implementation of the DC-WRCP will result in development pressure to convert existing agricultural uses to various types of developed lands. The loss and conversion of agricultural lands represents a significant adverse impact. Corresponding displacement of wildlife is also a significant adverse impact.

RIPARIAN AND WOODLAND

<u>Vegeta</u>tion

Implementation of the Draft DC-WRCP would result in the loss of riparian woodlands. Because riparian woodlands are scarce lo-

cally and throughout the state and Decause dependent wildlife, any loss of riparian habitat is of concern. Because riparian woodland occurs throughout the eastern half of the plan area, the extend of impacts needs to be determined on a site-by-site basis.

Implementation of the Draft DC-WRCP would result in the degrada-Wildlife tion of wildlife habitat in the riparian woodlands and lead to increased human disturbance of riparian wildlife. This impact is considered significant and unavoidable.

URBAN AND RURAL/URBAN

Implementation of the DC-WRCP is not expected to significantly impact either vegetation or wildlife within either of these categories since they are already developed areas.

VERNAL POOLS

Implementation of the DC-WRCP could result in the loss of previously unidentified vernal pools. To reduce this potentially significant impact to a less-than-significant level, site specific field studies should be conducted to document locations of and preserve priority vernal pools on individual development sites.

WETLANDS

Implementation of the Draft DC-WPCP would result in the loss of wetlands, including freshwater marshes, seeps, and ponds. This impact is considered significant and unavoidable. To reduce this impact, but not to a less-than-significant level, adopt and implement a riparian and wetlands protection ordinance, require site-specific surveys prior to development to delineate wetlands in the DC-WPCP area, coordinate all development proposals involving wetlands with the California Department of Fish and Game, U.s. Army Corps of Engineers, and U.S. Fish and Wildlife Service, and establish a no-net-loss policy requiring preservation of all wetlands sites or preservation of priority wetlands and compensation for wetland losses.

Mitigation Measures

Goals Incorporated into the Draft DC-WRCP

The Draft DC-WRCP incorporates the following goals designed to protect vegetation, wildlife, and aquatic resources.

- GOAL 10: THIS PLAN STRIVES TO PRESERVE THE NATURAL LAND FORMS, NATURAL VEGETATION, AND NATURAL RESOURCES OF THE AREA AS MUCH AS POSSIBLE, WHILE ALSO RECOGNIZING THE DELETERIOUS EFFECT OF INTENSE DEVELOPMENT IN THE SUR-ROUNDING AREAS.
- GOAL 14: IT IS A GOAL TO MAINTAIN THE HEAVILY VEGETATED COR-RIDORS THAT EXIST ALONG CIRCULATION ROUTES TO PRESERVE THEIR RURAL NATURE.
- GOAL 17: A MAJOR GOAL OF THE PLAN IS TO UTILIZE AND IMPROVE THE DRY CREEK ENVIRONS AS A FOCAL POINT OF THE NEIGHBORHOODS TO BE CREATED IN THE AREA THROUGH THE PLACEMENT OF PARK FACILITIES, ROADWAYS, TRAILS, INTERPRETIVE AREAS AND VISIBILITY, ETC.
- GOAL 31: RECOGNIZE THE DRY CREEK FLOODPLAIN AS A PUBLIC RESOURCE TO BE MANAGED AND MAINTAINED FOR THE PUBLIC'S BENEFIT.
- GGAL 39: PROVIDE FOR THE PROTECTION OF RARE, THREATENED AND EN-DANGERED SPECIES AND THE HABITAT WHICH SUPPORTS THOSE SPECIES.
- GOAL 40: CONSERVE THE QUALITY OF ALL HABITATS WHICH SUPPORT THE ENVIRONMENT OF FISH AND WILDLIFE SPECIES SO AS TO MAINTAIN POPULATIONS AT SUSTAINABLE LEVELS.
- GOAL 42: SAFEGUARD AND MAINTAIN NATURAL WATERWAYS TO ENSURE WATER QUALITY, SPECIES DIVERSITY AND UNIQUE HABITAT PRESERVATION.
- GGAL 43: IDENTIFY ALL ECONOMICALLY VALUABLE RESOURCES, INCLUDING MINERAL DEPOSITS, SOILS CONDUCIVE TO AGRICULTURAL USES, AND THOSE OPEN SPACE AREAS WHICH ADD TO THE ATTRACTIVE-NESS OF THE REGION AND ARE VITAL TO ITS DEVELOPMENT AS A RURAL RESIDENTIAL COMMUNITY.
- GOAL 45: RECOGNIZE AGRICULTURAL LANDS AS A RESOURCE AND SEEK TO PROTECT THESE AREAS FROM URBAN ENCROACHMENT.
- GOAL 46: RECOGNIZE THAT CLEAN AIR AND WATER ARE ESSENTIAL RESOURCES FOR MAINTAINING A HIGH QUALITY OF LIVING, AND ENSURE THAT THESE RESOURCES ARE MAINTAINED AT ACCEPTABLE LEVELS.
- GOAL 47: TO PRESERVE AND ENHANCE OPEN SPACE LANDS TO MAINTAIN THE NATURAL RESOURCES AND RURAL CHARACTERISTICS OF THE AREA.
- GOAL 48: TO PROTECT AND PRESERVE OPEN SPACES VITAL FOR WILDLIFE HABITAT AND OTHER AREAS OF MAJOR OR UNIQUE ECOLOGICAL SIGNIFICANCE.

- TO PROTECT THE NATURAL BEAULI AND MINISTER .. OF THE NATURAL TERRAIN AND VEGETATION. GOAL 49:
- TO CONSERVE AND ENHANCE THE UNIQUE NATURAL ENVIRONMENT AND OPEN SPACE OF THE AREA AND TO MINIMIZE DISTURBANCE OF THE NATURAL TERRAIN BECAUSE THESE ARE UNIQUE AND VALUABLE ASSETS FOR THE DRY CREEK WEST PLACER COMMUNITY GOAL 50: PLAN AREA, PLACER COUNTY AND THE COUNTIES THAT BORDER THE AREA.
- PRESERVE OUTSTANDING AREAS OF NATURAL VEGETATION IN-CLUDING, BUT NOT LIMITED TO OAK WOODLANDS, RIPARIAN GOAL 51: AREAS AND VERNAL POOLS.
- TO CONSERVE THE VISUAL RESOURCES OF THE COMMUNITY, IN-CLUDING THE IMPORTANT VISTAS AND WOODED AREAS, AND IN GOAL 52: PARTICULAR, THE RIPARIAN HABITAT OF DRY CRESK AND ITS INTERMITTENT STREAMS AND NATURAL DRAINAGE CHANNELS WHICH ARE IMPORTANT IN PROVIDING LOW COST NATURAL FLOCO CONTROL.
- PROVIDE FOR THE PROTECTION OF RARE, THREATENED AND EN-DANGERED SPECIES AND/OR THE HABITAT WHICH SUPPORTS GOAL 53: THESE SPECIES.
- TO PERMIT EXISTING AGRICULTURAL USES TO CONTINUE, AND TO CONSERVE LANDS SUITABLE FORE AGRICULTURAL USES WHILE GOAL 54: ALLOWING URBAN/SUBURBAN/RURAL RESIDENTIAL USES IN CTHER AREAS.

Ordinances Already Required by Placer County

Continue to Implement the Leash Law

Placer County should continue to implement the leash law (crcinance 3.60).

Mitigation Measures Recommended by the Draft EIR

Adopt and Implement a Tree Ordinance for the DCWP Area

Placer County should adopt and implement an ordinance that would require the preservation of the oak woodland and important tree resources.

Key issues in the tree preservation ordinance are identifying and cataloging all oak trees prior to development of a site plan, requiring developers to apply for a permit to remove oak or other important trees, requiring developers to submit a compensation plan for all trees approved for removal, and requiring developers to incorporate existing trees into their project designs. Project developers should avoid removing large oak trees and stands of significant value to wildlife.

Land Use Alternatives

The proposed land use alternatives (Plans X, Y, and Z) recognize exiting agricultural uses and valuable riparian/woodland within the community Plan area and have recommended large parcel sizes in the western portion and open space designations along the 100 year floodplain of Dry Creek and its major drainages.

ATTACHMENT C

Resolution for Dry Creek West Placer Community Plan Environmental Impact Report

Before the Board of Supervisors County of Placer, State of California

In the matter of: A Resolution adopting the Dry Creek-West Placer Community (General) Plan (GPA-Z82), Findings of Fact and Statement of Overriding	Ord. No
Considerations	First Read

Resol.	No:	9.0-181
Ord.	No:	***************************************

First Reading: May 14, 1990

The following_	RESOLUTION		was du	ily passed	by the	Board o	of Super	visoti
of the County o	f Placer at a regular	meeting held _	мол day.	May 14.	1990			.
by the following	vote on roll call:							

Ayes: Mahan, Ferreira, Hogg, Fluty, Beland

Noes: None

Absent: None

Signed and approved by me after its passage.

Attest: Clerk of said Board Chairmon, Board of Supervisors

WHEREAS, the Planning Commission of the County of Placer, State of California, has held public hearings on December 13, 1989; January 17, 1990; February 22, 1990; and March 28, 1990 in the time and manner prescribed by law to consider and make recommendation to the Board of Supervisors on the Dry Creek-West Placer Community Plan.

WHEREAS, the Placer County Environmental Review Committee held a public hearing on the EIR on February 21, 1998.

WHEREAS, the Board of Supervisors of the County of Placer, State of California, has held a public hearing on May 14, 1990 in the time and manner prescribed by law to consider the adoption of the Dry Creek-West Placer Community Plan.

WHEREAS, the Board of Supervisors has considered the recommendations of the Placer County Planning Commission. County staff, local community groups, other public agencies, and oral evidence of all individuals wishing to testify.

WHEREAS, the Board of Supervisors finds that the Dry Creek-Wist Plater Community Plan conforms to all applicable sections of the California Government Code regarding community plans; and

WHEREAS, an Environmental Impact Report (EIR) was prepared and certified for the Dry Creek-West Placer Community Plan in accordance with the California Environmental Quality Act (CEQA): and

WHEREAS, the EIR indicated several significant environmental effects that would result from approval of the Plan; and

WHEREAS, CEQA and State and County Guidelines adopted pursuant thereto require this Board to make certain findings where the EIR identifies one or more significant effects which would or could result from approval of the Plan; and

WHEREAS, the findings and overriding considerations relied upon by the Board are set forth as follows:

- A. FINDINGS:
- Significant Effect: Implementation of the Dry Creek-West Placer Community Plan will result in a substantia, increase in population within the Plan area. (DEIR page 4-1.)

Finding: The Goals and Policies contained within the Community Development Element of the Community Planwill be implemented to deal with population increases. This will reduce the impact, but not to a less than significant level.

 Significant Effect: Implementation of the Dry Creek-West Placer Community Plan will result in increased traffic volumes that are deemed significant and unavoidable on a regional basis. (DEIR, page 5-28.)

Finding: The Goals and Policies contained within the Transportation and Circulation Element of the Community Plan will be implemented to address Transportation/Circulation issues. The impacts cannot, however, be reduced to a less than significant level on a regional basis.

Significant Effect: Implementation of the Dry Creek-West Placer Community Plan will result in additions to an existing region-wide air quality nonattainment situation including additional vehicular emissions in both the plan area and air basin. (DEIR, page 6-3.) 4.0

Finding: The final Goal in the Natural Resources Element of the Community Plan and the corresponding Policy are incorporated to protect Air Resources. In addition, compliance with all Air pollution Control District Rules and Regulations will reduce impacts, but not to a less than significant level.

4. Significant Effect: Implementation of the Dry Creek-West Placer Community Plan will increase run-off and add incrementally to regional flooding concerns. (DEIR, page 9-1.)

Finding: Goals and Policies contained within Public Services Element of the Community Plan will be implemented to deal with drainage and flooding concerns. In addition, several programs (Master Brainage Plan, Flood Danage Prevention Ordinance, Grading Ordinance, Land Development Manual, etc.) will be involved in mitigating impacts. On a cumulative basis, however, the impacts cannot be reduced to a less than significant level.

5. Significant Effect: Implementation of the Dry Creek-West Placer Community Plan could degrade the surface and sub-surface water quality due to increased contamination from agricultural pesticides and wastes, from erosion and sedimentation within drainageways, run-off from developed areas and septic tank effluent. (DEIR, page 102.)

Finding: Goals and Policies contained within the Public services Element and the Natural Resources Element will be implemented to decrease impacts on water quality. The impacts on a cumulative basis will still be significant, however.

 Significant Effect: Implementation of the Dry Creek-West Placer Community Plan will result in los and conversion of agricultural lands, riparian and woodlands, and wetlands. (DEIR, page 10-07 and 10-8.)

Finding: Goals and Policies contained within the Natural Resources Element and Open Space Element of the Community Plan will be implemented to minimize impacts on Vegetation and Wildlife. Impacts cannot, however, be reduced to a less than significant level on a cumulative basis.

B. OVERRIDING CONSIDERATIONS

The board has made a reasonable and good faith effort to mitigate potential impacts resulting from this project. The Board has adopted numerous policies, goals, standards, and guidelines to substantially mitigate or eliminate potential

impacts. Changes and alterations to the Plan text and Land Use designations have been adopted which will substantially lessen or avoid significant environmental impacts as identified in the EIR. Additionally, the Board has adopted a Mitigation Monitoring Program for the Plan which outlines how the mitigation measures adopted as part of the Plan will be implemented, monitored, and evaluated.

Notwithstanding the disclosure of impacts identified in the EIR as significant and potentially significant, which have not been eliminated or mitigated to a level of insignificance, the Board acting pursuant to Section 15093 of the State CEQA Guidelines, hereby determines that the benefits of approving the proposed project outweighs the unmitigated adverse environmental impacts.

The Board has considered the public record on the Dry Creek-West Placer Community Plan and finds that the project is in the public interest in that a variety of economic, regional and social benefits from the Plan outweighs all such remaining unavoidable impacts. In particular the project will accomplish the following:

- The Plan provides a broad framework and policy direction for development of the area.
- 2. It provides for sound and adequate housing to meet future needs anticipated in current population projections for all expected segments of the community, while ensuring compatibility with existing and proposed land uses.
- 3. It provides for preservation of the rural-residential character of part of the Plan area, while permitting additional housing, commercial, industrial, and public service uses in other areas.
- It identifies existing natural resources and develops goals and policies for their preservation and enhancement.
- It provides for orderly growth in conjunction with necessary expansion of infrastructure.

Furthermore, the adopted Plan is environmentally superior to the No-Project alternative (1967 Placer County General Plan) as documented in the EIR and therefore less impactful overall on the community environment.

WHEREAS, the Board of Supervisors recognizes that the Dry Creek-West Placer Community Plan amends the Placer County General Plan. WHEREAS, the Board of Supervisors finds that the Dry Creek-West Blacer Community Plan is a comprehensive, long-term plan for the physical development of the area which will serve to protect and enhance the health, safety, peace, and general welfare of the residents of the Plan area and the County of Placer as a whole.

NOW, THEREFORE, BE IT RESOLVED, that the Dry Creek West Placer NOW, THEREFORE, BE IT RESOLVED, that the Dry Creek West Placer Community (General) Plan is hereby adopted as shown in Exhibit A attached hereto and incorporated herein by reference.

Note:

REA-804 - Rezoning amending Placer County Code, Chapter 30, Maps 60, 3C and 3D was adopted at the same time as this General Plan Amendment.

BEFORE THE BOARD OF SUPERVISORS COUNTY OF PLACER, STATE OF CALIFORNIA

Resol.	No:	94-238
		

In the matter of: A RESOLUTION TO AMEND THE DRY CREEK/WEST PLACER COMMUNITY PLAN TO INCLUDE THE WEST PLACER SPECIFIC PLAN AREA (GPA-299)

		First Reading:
atar		esolution was duly passed by the Board of Supervisors of the County of Placeing held, by the following vote
	Ayes:	Ozenick, Lichau, Uhler, Ferreira
	Noes:	Bloomfield
	Absent:	None
Signe	d and appn	ved by me after its passage. Chairman, Board of Supervisors
Attest	-	
Clerk	of said Bos	Hake
1		

THE BOARD OF SUPERVISORS OF THE COUNTY OF PLACER, STATE OF CALIFORNIA, DOES HEREBY RESOLVE:

WHEREAS, the Planning Commission and Board of Supervisors held public hearings as specified in the Resolution adopting the Placer County General Plan; and

WHEREAS, as a part of adoption of the Placer County General Plan, the Planning Commission and Board of Supervisors considered amendments to the Dry Creek/West Placer

Community Plan; and

WHEREAS, the Board of Supervisors has considered the recommendations of the Plac r County Planning Commission, County staff, local community groups, other public agencies, and all members of the public who testified or submitted written comments; and

WHEREAS, the Board of Supervisors finds that this amendment to the Dry Creek/West Placer Community Plan conforms to all applicable sections of the California Government Code regarding general and community plans; and

WHEREAS, an Environmental Impact Report was prepared and certified for the Place: County General Plan in accordance with the California Environmental Quality Act (CEQA); and

WHEREAS, the Board of Supervisors certifies that the Placer County General Plan Environmental Impact Report adequately addresses this amendment to the Dry Creek/West Placer Community Plan; and

WHEREAS, CEQA and State and County Guidelines adopted pursuant thereto require this Board to make certain findings where the EIR identifies one or more significant effects which would or could result from approval of the Plan; and

WHEREAS, the findings and overriding considerations relied upon by the Board are set forth in the certification and adopted findings done for the Placer County General Plan; and

WHEREAS, the Board of Supervisors finds that this amendment to the Dry Creek/West Placer Community Plan provides a comprehensive, long-term plan for the physical development of the area which will serve to protect and enhance the health, safety, peace, and general welfare of the residents of the Plan area and the County of Placer as a whole.

NOW, THEREFORE, BE IT RESOLVED that the Dry Creek/West Placer Community Plan is hereby amended to include the West Placer Specific Plan Area. This amendment, as shown in Exhibit I attached hereto, and incorporated herein by reference, includes standards for development in the specific plan area and changes to the text as well as amendments to all of the exhibits and the community plan land use diagram to reflect the specific plan area.

NOTE: REA-839 was adopted concurrently with this Resolution.

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Exhibit 1

The following discussion is to be added to the Dry Creek/West Placer Community Plan to address the area generally west of Watt Ave and south of Baseline Road. The Community Plan Land Use diagram and all appropriate exhibits will also be amended to designate the area as the West Placer Specific Plan Area. Additional minor text changes shall be made elsewhere in the Plan to reflect this amendment.

: The West Placer Specific Plan Area is located in the southwest comer of unincorporated Placer County, adjacent to the Sacramento and Sutter County lines and is the western-most half of the Dry Creek/West Placer Community Plan area. The Specific Plan Area is approximately four miles west of Roseville and 10 miles north of the City of Sacramento. The site is approximately 5,150 acres. The plan area is envisioned as a mixed-use community including residential, retail commercial, and business/professional uses, as well as public facilities such as parks, schools, and open space. This Specific Plan area was identified in the Dry Creek/West Placer Community Plan (1990) as an area to be examined as part of the Countywide General Plan The Update and that update resulted in this designation for the area.

The West Placer Specific Plan Area shall be subject to the following development standards:

- Residential uses: A maximum of 14,132 dwelling units, although this number may not be realized due to site constraints, inclusion of buffers, and other factors that may limit developable land.
- The following acreage shall serve as Commercial and industrial uses: 2. approximations of an acceptable mix of on-residential uses: a maximum of 80 acres of commercial, 160 acres of office and professional development, and up to 300 acres of professional/light industrial development.
- Open space: Open space shall be provided for drainageways, floodplains, 3. recreation areas, parks, undeveloped buffers, trail corridors, and natural areas.
- Required buffers: Proposed development within the West Placer Specific Plan Area shall incorporate the following land use buffers, according to the standards of buffer zones contained in the Placer County General Plan, Part I (page 19).
 - Agricultural/Timberland
 - Industrial/Residential
 - Sensitive Habitat

In addition, the project shall include elements in its design which provide buffers between urban areas within the boundaries of the Specific Plan Area and rural residential development in Sacramento County.

Transit: A public transit system shall consist initially of an express bus system 5. and dedication of right-of-way corridor for possible future light rail transit with

a feeder bus network.

- Urban design: Development within the West Placer Specific Plan Area shall be planned and designed to comply with the following standards:
 - a. Urban form. The specific plan and project plans for development shall provide for up to two mixed use, pedestrian-oriented village or towns and a single, larger town center. Village areas should be surrounded by buffer lands, low density single-family residential, and/or regional employment and commercial. Mixed use (commercial, professional office, and high density residential) nodes, commercial centers, and regional employment areas are to be established at sufficient densities to support express bus transit service between adjoining villages and nearby urban centers (e.g., other new growth areas or incorporated cities). Each village should contain all public facilities and services necessary for its development.
 - b. Town center. The Specific Plan Area should contain one large town center that will operate as the institutional and social focal point of the community. The town center is to contain, at a minimum: a community meeting facility; formal outdoor gathering areas (e.g., amphitheaters); and the main offices and facilities for law enforcement, fire library, and other public services. Public, quasi-public, and institutional facilities should be centrally located in the town center.
 - Village core areas. Mixed-use commercial core areas should be developed to provide service and neighborhood commercial needs, professional services, public, quasi-public, and institutional facilities, and high-density residential uses. Village core areas shall contain transit services to connect to nearby village areas, commercial centers, and regional employment areas, and to destinations beyond the boundaries of the Specific Plan Area.
 - d. Public gathering areas. Commercial areas within town centers and village core areas shall be enhanced by incorporating outdoor public gathering areas into their design. Such areas are intended to facilitate social interaction by area residents and employees.
 - e. Community open space areas. Each village area should contain a village green to be located adjacent to, or integrated into, the village core area. Community parks should be located adjacent to major open space and roadway corridors (see items i. and j. below). Community parks may serve as buffer areas between conflicting land uses (See the standards for Land Use Buffer Zones in the Placer County General Plan in Part I, page 19), within or adjacent to the specific plan area. All developed and undeveloped park areas should be linked by a system of greenways and parkways containing pedestrian and bicycle paths separated from vehicular

traific.

f. Pedestrian-oriented design. Town center, village core, and regional employment areas shall be planned and designed to be pedestrian, bicycle, and transit accessible. Design elements that accommodate pedestrian and cyclists should take precedent over elements that primarily accommodate automobiles.

e. Commercial areas:

- (1) New commercial buildings shall be designed to provide maximum pedestrian accessibility. Primary ground floor commercial building entrances should orient to plazas, parks, or pedestrian-oriented streets rather than interior blocks or parking lots. Anchor retail buildings may have their entries from off-street parking lots; however, on-street entries are strongly encouraged.
- (2) Street-level windows and numerous building entries are in encouraged town centers and village core areas. Arcades, porches, bays, and balconies are encouraged.
- (3) If a wail of a primary commercial establishment does not have an entry on a pedestrian route, it shall include windows, display areas, and/or be lined with retail shops to provide visual interest to pedestrians.
- (4) Entries into small shops and offices shall orient directly onto a pedestrian-oriented street. Buildings with multiple retail tenants should have numerous entries onto the street. Small, single-entry malls should be avoided. Off-street parking should be located the rear of buildings with walkways leading to the street and entry.
- (5) Commercial development shall be designed to provide varied and interesting building facades to provide pedestrian orientation. Buildings designs should provide as much variety as possible without creating a chaotic image. Facades should vary from one building to the next, rather than create an overly unified fromage. Covered walkways should be provided whenever possible.
- fi. Residential areas. Residential areas shall consist of the following three types:
 - (1) Village Residential. These areas shall be located within walking distance of a village commercial core area. The housing should

consist of high-density single-family (with or without carriage or secondary dwelling units) and multi-family units.

- (2) Single-family Residential. These areas should surround village residential areas at densities consistent with suburban residential development (e.g., 4 to 7 dwellings per acre). Subdivision design should provide opportunities for pedestrian and bicycle access to village core areas. Physical separation of single-family residential areas by such means as sound walls, berms, and major roads should be discouraged. Single-family residential areas should be incorporated into their village so village residential and single-family residential areas function as a single unit and are not separated by physical or design characteristics.
- (3) Rural Residential. These areas should be located in buffer zones within the specific plan boundaries. Rural land uses shall only be considered in areas where residential land use is consistent with the standards in Part I for buffers (page 19). Rural residential densities of 0.2 dwellings per acre or more shall be allowed only when public sewer and water facilities are provided.
- i. Open space corridors. Existing and proposed linear open space corridors should be developed as a pedestrian, equestrian, and/or bicycle trail system. Existing corridors include, but are not limited to, stream and riparian areas (e.g., the Dry Creek corridor), power line easements, abandoned rail rights-of-way, existing public trails, and existing public roads and bridges that may be ultimately abandoned. The Dry Creek corridor shall be designed to provide bicycle/equestrian/pedestrian connections to similar facilities in Sacramento County near Gibson Ranch Park.
- Roadway corridors. Collector and arterial roads shall be designed as landscaped corridors, including separated bicycle and pedestrian facilities within landscaped or native open space corridors and landscaped berms and medians.
- 7. Phasing of Development: Phasing shall maintain a balanced mix of land uses' throughout development of the plan area and shall address necessary infrastructure and other relevant issues. Development in the West Placer Specific Plan Area shall be required to proceed in a logical fashion.
- Agricultural water supply: Development within the Specific Plan Area should assist in the provision of affordable agricultural water to surrounding agricultural lands. Sources of such agricultural water include reclaimed and retained water

and newly developed surface water sources.

9. Noise: Development within the Specific Plan Area shall be designed to avoid aircraft noise impacts on noise sensitive uses, resulting from operations at McCtellar Air Force Base. No residential land uses shall be permitted in areas which exceed noise levels indicated in Table 9-3, page 122 of the Placer County General Plan.

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United States Department of the Interior

FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office 2800 Cottage Way, Room W-2605 Sacramento, California 95825-1846



In reply refer to: 1-1-03-I-3402

JAN 2 1 2005

Mr. Thomas J. Cavanaugh Chief, Sacramento Valley Office U.S. Army Corps of Engineers 1325 J Street Sacramento, California 95814-2922

Subject:

Informal Endangered Species Consultation on the Whispering Creek

Project (Corps # 200300650), Placer County, California

Dear Mr. Cavanaugh:

This letter responds to your May 9, 2003, request for initiation of formal consultation with the U.S. Fish and Wildlife Service (Service) on the proposed Whispering Creek Project (proposed project). Your letter was received by the Service on May 13, 2003. The proposed 36-acre project site is located in western Placer County, west of Cook-Riolo Road and east of Walerga Road. The proposed project involves the development of 57 single-family lots with a recreational area and will preserve two open space areas. At issue are the potential effects of the proposed project on the endangered vernal pool tadpole shrimp (Lepidurus packardi) and the threatened vernal pool fairy shrimp (Branchinecta lynchi). This response is in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.) (Act).

The Service has reviewed the proposed project, and included the following in this consultation: (1) the March 12, 2003, Nationwide Permit 39, Pre-Construction Notification for Whispering Creek (Placer County, California), prepared by ECORP Consulting, Inc.; (2) your May 9, 2003, letter requesting formal consultation on the proposed project; (3) a November 3, 2004, site visit conducted by Rick Kuyper of the Service and Hal Freeman of ECORP Consulting, Inc.; (4) the January 7, 2004, Annual Report of Findings Regarding Wet and Dry Season Surveys for Federally-listed Crustaceans for Whispering Creek, Placer County, California, prepared by ECORP Consulting; and (5) other information available to the Service.

The Service has determined that the proposed project is not likely to adversely affect the endangered vernal pool tadpole shrimp or the threatened vernal pool fairy shrimp. Tete Balfour of ECORP Consulting conducted protocol-level wet season and dry season surveys for these species within suitable habitat found onsite and no federally-listed species were detected.



CENTERCHAN

Mr. Thomas J. Cavanaugh

If you have any questions regarding the proposed Whispering Creek Project, please contact Rick.... Kuyper or the Acting Sacramento Valley Branch Chief at (916) 414-6645.

Sincerely,

Chris Nagano, Chief () Endangered Species Division

cc:

Kent Smith, California Department of Fish and Game, Rancho Cordova, California Bill Brown, Towne Realty, Roseville, California Hal Freeman, ECORP Consulting, Inc. Roseville, California

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DEPARTMENT OF THE ARMY
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO
CORPS OF ENGINEERS
1325 J STREET
SACRAMENTO, CALIFORNIA 95814-2922

REPLY TO ATTENTION OF

February 17, 2004

Regulatory Branch (200200767)

Bill Brown Towne Realty Incorporated 775 Surrise Ave., Suite 270 Roseville, California 95661

Dear Mr. Brown:

This letter concerns the November 27, 2002, wetland delineation for the proposed Whispering Creek project site submitted to this office for verification on your behalf. This 36-acre site is located in Section 17, Township 10 North, Range 6 East. MDB&M, Placer County, California.

Based on a site inspection conducted by Mr. William Ness of this office on November 25, 2003, we concur with the estimate of waters of the United States, as depicted on the December 16, 2003, revision of the map entitled, Whispering Creek, Wetland Delineation. Approximately 1.534 acres of waters of the United States, including wetlands, are present within the surveyed area. These waters are regulated by this office under Section 404 of the Clean Water Act since they are tributary or adjacent to a tributary of the Sacramento River, a navigable water.

Under Section 404 of the Clean Water Act, a Department of the Army (DA) permit is required prior to discharging dredged or fill materials into waters of the United States. The type of permit required will depend on a number of factors, including the type and amount of waters affected by the discharge. For more information on how to obtain a DA permit from our office, please visit our website at http://www.spk.usage.army.mil/cespk-co/regulatory/.

This verification is valid for five years from the date of this letter unless new information warrants revision of the determination before the expiration date. A notice of appeal options is enclosed. You should provide a copy of this to all other affected parties.

-2-

Please refer to identification number 200200767 in correspondence concerning this project. If you have any questions, please contact Mr. William Ness at our Sacramento Valley Office, 1325 J Street, Room 1480, Sacramento, California 95814-2922, or email William.W.Ness@usace.army.mil, or telephone 916-557-5268. You may also use the Regulatory Permits link on our website: www.spk.usace.army.mil.

Sincerely,

ORIGINAL SIGNED

Thomas J Cavanaugh Chief, Sacramento Valley Office

Enclosure

Copies furnished without enclosure:

George Day, Storm Water and Water Quality Certification Unit, Central Valley Regional Water Quality Control Board, 11020 Sun Center Drive #200, Rancho Cordova, California 95670-6114

Keith Kwan, Ecorp Consulting, Incorporated, 2260 Douglas Blvd., Suite 160, Roseville, California 95661

IInsent color separater Sheet here



TOWNE DEVELOPMENT OF SACRAMENTO, INC.

WHISPERING CREEK [36.7 acre: APN #023-260-002] (Placer County, California)

PRELIMINARY ARBORIST REPORT

Submitted by:

Edwin E. Stirtz ISA Certified Arborist WE-0510A SIERRA NEVADA ARBORISTS

March 18, 2003

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COPYRIGHT STATEMENT

This consultant's report, dated March 18, 2003, is for the exclusive and confidential use of Towne Development of Sacramento, Inc. concerning the Whispering Creek project site located in Placer County, California exclusively, and may not be reproduced in whole or in part on other occasions without written permission of the Consultants, Sierra Nevada Arborists.



SIERRA NEVADA ARBORISTS

March 18, 2003

Mr. Jack Coulter Towne Development of Sacramento, Inc. 775 Sunrise Avenue, Suite 270 Roseville, California 95661

RE:

Arborist Report for Whispering Creek

Placer County, California

Dear Mr. Coulter:

On March 18, 2003, Sierra Nevada Arborists visited the Whispering Creek (36.7 acre: APN #023-260-002) project site located off PFE Road in Placer County, California. The purpose of this site visit was to inspect and evaluate the native oak trees located within the project site, and to prepare an Arborist Report following the Placer County Tree Preservation Ordinance (Article 12.16, Chapter 12.16.020) which requires an inventory and field identification of any single-trunked native trees 6" DBH or larger, as well as any multi-trunked native trees with an aggregate of 10" DBH or larger. The trees have been identified in the field with round, metal numbering tag which has been affixed to the tree's trunk. For your reference, the numbers utilized in this report correspond to the tree tag affixed to the tree, and those tree numbers have been rough-plotted on the Tentative Subdivision Map provided by Baker-Williams Engineering Group.

The riparian corridor within the Lot D open space contains approximately 30 native and non-native trees. For reference, a row of native trees on the east side of the channel and west of the 50' riparian buffer was inventoried as an edge reference and included within this arborist report.

Thank you for allowing Sierra Nevada Arborists to assist you with this project. Please feel free to give me a call if you have any questions or require additional information.

Sincerely,

Edwin E. Stirtz

ISA Certified Arborist WE-0510A

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EES:ks Enclosure

cc: Mr. Mike Williams (w/enclosures: rough-plotted map)

Mr. Jack Coulter RE: Whispering Creek

March 18, 2003

Page 3

TREE#1 DIAMETER : 7 inches
Valley Oak DRIPLINE RADIUS : 9 feet
(Quercus lobata) ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor
DRIPLINE ENVIRONMENT : Road shoulder/grasses
RECOMMENDATIONS : Clean out crown

TREE#2 DIAMETER : 20 inches
Valley Oak DRIPLINE RADIUS : 26 feet
(Quercus lobata) ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair – pruned for utility line

clearance

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor DRIPLINE ENVIRONMENT : Grasses/road shoulder RECOMMENDATIONS : Clean out crown

TREE#3 DIAMETER : 45 inches
Valley Oak DRIPLINE RADIUS : 40 feet
(Quercus lobata) ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

Mr. Jack Coulter RE: Whispering Creek March 18, 2003

Page 4

TREE#4 DIAMETER : 21 inches
Cottonwood DRIPLINE RADIUS : 26 feet
(Populus fremontii) ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor DRIPLINE ENVIRONMENT : Grasses/seasonal drainage

RECOMMENDATIONS : Clean out crown

TREE#5 DIAMETER : 3 inches, 6 inches, 7 inches

Pacific Willow DRIPLINE RADIUS : 14 feet (Salix lasiandra) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Scasonal drainage RECOMMENDATIONS : Clean out crown

TREE#6 DIAMETER : 6 inches, 13 inches

Cottonwood DRIPLINE RADIUS : 14 feet (Populus fremontii) ROOT CROWN : Fair

TRUNK : Fair LIMBS : Fair FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Seasonal drainage RECOMMENDATIONS : Clean out crown

TREE#7 DIAMETER : 6 inches
Pacific Willow DRIPLINE RADIUS : 10 feet
(Salix lasiandra) ROOT CROWN : Fair

TRUNK

LIMBS : Fair – above average amount of

deadwood

Fair

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Seasonal drainage RECOMMENDATIONS : Clean out crown

Mr. Jack Coulter RE: Whispering Creek

March 18, 2003

Page 5

TREE#8 DIAMETER : 13 inches
Cottonwood DRIPLINE RADIUS : 15 feet
(Populus fremontii) ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair - above average amount of

deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Seasonal drainage RECOMMENDATIONS : Clean out crown

TREE#9 DIAMETER : 7 inches
Pacific Willow DRIPLINE RADIUS : 8 feet
(Salix lasiandra) ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair – above average amount of

deadwood

4 inches, 5 inches, 5 inches,

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

TREE#10 Pacific Willow

(Salix lasiandra) DRIPLINE RADIUS

DIAMETER

DRIPLINE RADIUS : 14 feet
ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair - above average amount of

deadwood

6 inches

FOLIAGE : Fair

CONDITION Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

Mr. Jack Coulter RE: Whispering Creek March 18, 2003

Page 6

TREE#I1 DIAMETER : 19 inches
Cottonwood DRIPLINE RADIUS : 21 feet
(Populus fremontit) ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair – above average amount of

dcadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor DRIPLINE ENVIRONMENT : Grasses/seasonal drainage

RECOMMENDATIONS : Clean out crown

TREE#12 Pacific Willow

(Salix lasiandra)

DIAMETER : 4 inches, 4 inches, 4 inches,

5 inches, 6 inches, 6 inches,

6 inches

DRIPLINE RADIUS : 12 feet ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair - above average amount of

deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor DRIPLINE ENVIRONMENT : Seasonal drainage/grasses

RECOMMENDATIONS : Clean out crown

TREE#13
Pacific Willow
(Salix lasiandra)

DIAMETER : 5 inches, 6 inches, 7 inches

DRIPLINE RADIUS : 15 feet

ROOT CROWN : Poor -- previously failed TRUNK : Poor to fair -- one stem lying

prone on grade

LIMBS : Fair -- above average amount of

deadwood

FOLIAGE : Fair

CONDITION : Poor to fair structure and fair

/igor

DRIPLINE ENVIRONMENT : Seasonal drainage/grasses

RECOMMENDATIONS : Clean out crown

Mr. Jack Coulter RE: Whispering Creek

March 18, 2003

Page 7

TREE#14 Pacific Willow DIAMETER : 3 inches, 4 inches, 5 inches,

5 inches

(Salix lasiandra) DRIPLINE RADIUS 12 feet ROOT CROWN Fair

TRUNK Fair

LIMB\$ Fair - above average amount of

deadwood

FOLIAGE Fair

CONDITION Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS Clean out crown Mr. Jack Coulter RE: Whispering Creek March 18, 2003

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Specific Inventory Data/Maintenance Recommendations

Within this specific inventory data you will find the following information:

Tree Number: Corresponds to aluminum tag attached to the tree.

Species

Identification: Scientific and common species name.

Diameter: This is the trunk diameter as measured at breast height

(industry standard 4.5 feet above ground level).

Dripline radius: Measurement of the tree's dripline from the trunk to the

farthest most branch tip.

Root Crown: Assessment of the root crown area located at the base of

the trunk of the tree at soil level.

Trunk: Assessment of the tree's main trunk from ground level

generally to the point of the primary crotch structure.

Limbs: Assessment of both smaller and larger branching, generally

from primary crotch structure to branch tips.

Foliage: Tree's leaves.

Overall Condition: Describes overall condition of the tree in terms of structure

and vigor.

Dripline Environment: Describes area directly beneath the tree (growing

environment).

Recommendation: Specific maintenance requirements.

CROWN CLEAN OUT: This shall consist of the removal of all dead, dying, diseased, interfering, objectionable, obstructing, and weak branches, as well as selective thinning to lessen wind resistance.

DEEP ROOT FERTILIZATION (D.R.F.): A method employed to induce vigor and stimulate new root growth. This is used as a means of feeding a large tree, as well as deep watering at the same time. Water soluble fertilizers are mixed in water and hydraulically pumped with a probe into the ground, delivering water and nutrients directly to the root zone, allowing for uptake from the tree. In this way, vigor can be improved and new root growth stimulated.

Mr. Jack Coulter RE: Whispering Creek March 18, 2003 Page 9

<u>DEFINITIONS OF TERMS USED IN THIS REPORT</u>

GOOD - A tree in this category has no trunk or root crown cavities or injuries; there is no indication of hollowness; no foreign objects are embedded in its structure; the root crown is above grade; there is no decay present except for small stubs; the structure is strong; the trunk is tapers; the bark thickness is normal; there is no fluxing; no fungus is evident; there is a below average amount of dead limbs and twigs present which is normal for the size and age of the species; there is no codominant branching present; there are no large callused areas and any small callusing present is vigorous and intact; there are no abnormally heavy insect infestations; the growth rate is and has been average or above; limb weight is not excessive; buds are normal size and viable; the leaf size, color, and density is normal or better; and barring any unforeseen negative effects, the life expectancy should exceed thirty years.

FAIR - There is no decay or indications of large hollow areas in the large limbs, root crown, or trunk; a few small callused-over foreign objects, e.g., nails, may be present, the structure is strong; no fungus is evident other than small saprophytes on exposed wood; some small, callusing injuries may be present, some small limbs may be dead and decaying but callus is forming at their base; some excessive limb weight may exist; there may be some minor fluxing; the amount of dead limbs and twigs present is within the normal range; some large callused areas may be present; some small cavities and areas of decay may be present; the growth rate is average or slightly below average; and some leaf size, color, and density may vary.

POOR - Significant cavities, dead areas, and decay may be present; the tree is actually defective; fungus fruiting bodies may be present; the amount of dead limbs and twigs is far above normal; major co-dominant branching with embedded bark may be present; buds are small and some may not be viable; leaves may be below average size and may be abnormal in color; significant pest damage may be present; and the predicted structural life and/or viability is less than ten years.

The ratings "good to fair" and "fair to poor" are used to describe trees that fall between the described major categories and have elements of both.

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TOWNE DEVELOPMENT OF SACRAMENTO, INC.

JONES PROPERTY
[APN 023-0260-017]
(Placer County, California)

PRELIMINARY ARBORIST REPORT

Submitted by:

Edwin E. Stirtz, Principal Consulting Arborist ISA Certified Arborist WE-0510A SIERRA NEVADA ARBORISTS

Wayne R. McKee, Consulting Arborist ISA Certified Arborist WE-0959A SIERRA NEVADA ARBORISTS

May 29, 2003

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SIERRA NEVADA ARBORISTS

May 29, 2003

Mr. Jack Coulter Towne Development of Sacramento, Inc. 775 Sunrise Avenue, Suite 270 Roseville, California 95661

RE:

Arborist Report for the Jones Property [APN 023-260-017]

Placer County, California

Dear Mr. Coulter:

On May 29, 2003, Sierra Nevada Arborists visited the Jones Property [APN 023-260-017] project site located off PFE Road in Placer County, California. The purpose of this site visit was to inspect and evaluate the native oak trees located within the project site, and to prepare an Arborist Report following the Placer County Tree Preservation Ordinance (Article 12.16, Chapter 12.16.020) which requires an inventory and field identification of any single-trunked native trees 6" DBH or larger, as well as any multi-trunked native trees with an aggregate of 10" DBH or larger. The trees have been identified in the field with metal numbering tag which has been affixed to the tree's trunk. For your reference, the numbers utilized in this report correspond to the tree tag affixed to the tree, and those tree numbers have been rough-plotted on the map provided by Baker-Williams Engineering Group.

As you will see, two native Pacific Willow (Salix lasiandra) trees were found on site. This report also includes data for 16 non-native Blue Gum (Eucalyptus globulus) which were inventoried due to their size being 19" DBH or greater single-trunk or aggregate. At this juncture, 1 tree has been recommended for removal due to structural defects which may pose a hazard if retained in a developed environment. Please note that this is a detailed, but cursory, look at the trees within the project site. Final impact assessments cannot be definitely determined until development plans have been finalized. At that time, additional impacts and/or removals may be more precisely defined and quantified, and specific recommended mitigative measures can be provided for each impacted tree on site.

Thank you for allowing Sierra Nevada Arborists to assist you with this project. Please feel free to give me a call if you have any questions or require additional information.

Sincerely.

Edwin E. Stirtz

ISA Certified Arborist WE-0510A

Edn & Story

EES:ks Enclosure

cc: Mr. Mike Williams (w/enclosures: rough-plotted map)

RE: Jones Property [APN 023-260-017]

May 29, 2003

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TREE#1 DIAMETER : 11 inches, 16 inches

Blue Gum DRIPLINE RADIUS : 21 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/pasture RECOMMENDATIONS : Clean out crown

TREE#2 DIAMETER : 8 inches, 19 inches

Blue Gum DRIPLINE RADIUS : 24 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Poor to fair - several large

failures, various locations; above average amount of

dcadwood

FOLIAGE : Fair

CONDITION : Poor to fair structure and fair

vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

TREE#3 DIAMETER : 12 inches, 16 inches

Blue Gum DRIPLINE RADIUS : 27 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – above average amount

of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/debris piles RECOMMENDATIONS : Clean out crown

RE: Jones Property [APN 023-260-017].

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TREE#4 DIAMETER : 19 inches
Blue Gum DRIPLINE RADIUS : 27 feet
(Eucalyptus globulus) ROOT CROWN : Fair
TRUNK : Fair

LIMBS ; Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor DRIPLINE ENVIRONMENT : Grasses/old appliances

RECOMMENDATIONS : Clean out crown

TREE#5 DIAMETER : 8 inches, 19 inches

Blue Gum DRIPLINE RADIUS : 26 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair -- slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

TREE#6 DIAMETER : 10 inches, 11 inches

Blue Gum DRIPLINE RADIUS : 17 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

RE: Jones Property [APN 023-260-017]

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TREE#7 DIAMETER : 8 inches, 11 inches

Blue Gum DRIPLINE RADIUS : 25 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – above average amount

of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

TREE#8 DIAMETER : 9 inches, 17 inches

Blue Gum DRIPLINE RADIUS : 30 feet (Eucalyptus globulus) ROOT CROWN : Fair

TRUNK: Poor to fair -- old wound,

primary crotch oozing sap

LIMBS : Fair - above average amount

of deadwood

FOLIAGE : Fair

CONDITION : Poor to fair structure and fair

vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

TREE#9 DIAMETER : 9 inches
Pacific Willow DRIPLINE RADIUS : 24 feet

(Salix lasiandra) ROOT CROWN : Poor to fair - defects/decay,

various locations, minor to

moderate

TRUNK: Poor to fair – significant lean

to south

LIMBS : Fair – above average amount

of deadwood

FOLIAGE : Fair

CONDITION : Poor structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/stream bed

RECOMMENDATIONS : Consider for removal due to

poor structural condition

RE: Jones Property [APN 023-260-017]

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TREE#10 DIAMETER : 5 inches, 6 inches, Pacific Willow : 7 inches, 7 inches, 9 inches

Pacific Willow 7 inches, (Salix lasiandra) DRIPLINE RADIUS : 16 feet

ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – above average amount

of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/stream bed RECOMMENDATIONS : Clean out crown

TREE#11 DIAMETER : 23 inches
Blue Gum DRIPLINE RADIUS : 24 feet
(Eucalyptus globulus) ROOT CROWN : Fair

TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

TREE#12 DIAMETER : 9 inches, 14 inches

Blue Gum DRIPLINE RADIUS : 26 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Poor to fair - two large

failures; above average amount

of deadwood

FOLIAGE : Fair

CONDITION : Poor to fair structure and fair

vigor

DRIPLINE ENVIRONMENT : Grasses/pasture RECOMMENDATIONS : Clean out crown

RE: Jones Property [APN 023-260-017]

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TREE#13 5 inches, 13 inches, 15 inches DIAMETER

Blue Gum DRIPLINE RADIUS 24 feet : Fair (Eucalyptus globulus) ROOT CROWN Fair TRUNK

> LIMBS Fair - slightly above average

> > amount of deadwood

FOLIAGE Fair

CONDITION Fair structure and fair vigor

DRIPLINE ENVIRONMENT Grasses/pasture RECOMMENDATIONS Clean out crown

TREE#14 DIAMETER 10 inches, 22 inches

Blue Gum DRIPLINE RADIUS 28 feet Fair (Eucalyptus globulus) ROOT CROWN TRUNK Fair

> LIMBS Fair - slightly above average

> > amount of deadwood

Fair FOLIAGE

CONDITION Fair structure and fair vigor

DRIPLINE ENVIRONMENT Grasses/pasture Clean out crown RECOMMENDATIONS

TREE#15 DIAMETER 13 inches, 15 inches

Blue Gum DRIPLINE RADIUS 26 feet (Eucalyptus globulus) ROOT CROWN Fair

TRUNK Fair

Fair - slightly above average LIMBS

amount of deadwood

FOLIAGE Fair

Fair structure and fair vigor CONDITION

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS Clean out crown

RE: Jones Property [APN 023-260-017]

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TREE#16 DIAMETER : 11 inches, 11 inches

Blue Gum DRIPLINE RADIUS : 26 feet (Eucalyptus globulus) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses

RECOMMENDATIONS : Clean out crown

TREE#17 DIAMETER : 5 inches, 7 inches, 8 inches

Blue Gum DRIPLINE RADIUS : 20 feet

(Eucalyptus globulus) ROOT CROWN : Fair - old wound, west side

TRUNK : Fair

LIMBS : Fair - slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/pasture RECOMMENDATIONS : Clean out crown

TREE#18 DIAMETER : 4 inches, 6 inches, 7 inches,

Blue Gum 8 inches, 9 inches

(Eucalyptus globulus) DRIPLINE RADIUS : 16 feet
ROOT CROWN : Fair
TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/pasture RECOMMENDATIONS : Clean out crown

Mr. Jack Coulter RE: Jones Property [APN 023-260-017] May 29, 2003 Page 9

GENERAL PRESERVATION RECOMMENDATIONS

The following information is provided in an effort to protect those trees which may be impacted by construction within the project site. It should be noted that these recommendations are generic in nature. As plans are developed and refined, a more detailed evaluation of tree impacts and/or removals should be made by a Certified Arborist. At that time specific preservation recommendations may be made for individual trees within the project site.

MITIGATIVE OVERVIEW

In order to afford the greatest potential for tree preservation during construction, there are general guidelines to provide this protection. The critical root zone area for a tree should include the dripline radius measurement taken from the tree trunk to the tip of the farthest reaching branch. In some circumstances, such as with a one-sided tree, this measurement could be somewhat skewed. In these situations, the Project Arborist should determine the critical root zone area. Generally, encroachments should be held to no more than 20% of the critical root zone area where potential root damage could be moderate or significant. In limited situations, encroachment exceeding 20% of the critical root zone area may be possible provided that potential root damage is not severe. The critical root zone area should be fenced prior to any activities on the site.

Canopy impacts can also pose a detriment to preserved trees. Frequently overlooked are conflicts between low-hanging tree branches and necessary clearance beneath a tree for construction equipment or home building purposes. Canopy impacts should also be maintained at 20% or less.

PAD GRADING MITIGATIVE MEASURES

Grade Cuts.

Cuts within a dripline of a tree should be maintained at less than 20% of the critical root zone area. Grade cuts should be supervised by the Project Arborist and any damaged roots encountered should be root pruned and properly treated as soon as possible after excavation. Cut faces which will be exposed for more than 2-3 days should be covered with dense burlap fabric and watered to maintain soil moisture at least on a daily basis (or possibly more frequently during summer months).

Grade Fills.

Fill materials less than 1 foot in depth and encroaching less than 20% into the critical root zone area should not require special mitigative measures. Should fills exceed 1 foot in depth up to 20% of the critical root zone area, aeration systems may serve to mitigate the presence of the fill materials.

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Should it be necessary to build fill materials on two or three sides of a tree, it is critical to provide for drainage away from the critical root zone area of the tree -- particularly when considering heavy winter rainfalls. Overland releases and subterranean drains dug outside the critical root zone area and tied directly to the main storm drain system are two possible options.

Structure Encroachment.

In some cases it may be necessary for a proposed home to encroach into the critical root zone area. Again, this encroachment should be maintained at less than 20%. In this situation, a slab foundation with an aeration system installed beneath the slab and footings excavated by hand may provide adequate root protection. Where tree roots tend to be shallow, even a hand-excavated footing can be detrimental. In this situation, a "post-tension" type slab may minimize root damage. If it is necessary for encroachment to exceed 20%, raised floor construction with a grade-beam type foundation footing may be a viable option.

When evaluating encroachment from a proposed structure the structure height and tree branch conflicts are critical to evaluate in order to ensure that no more than 20% of the tree's canopy requires removal.

RE: Jones Property [APN 023-260-017]

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Specific Inventory Data/Maintenance Recommendations

Within this specific inventory data you will find the following information:

Tree Number:

Corresponds to aluminum tag attached to the tree.

Species

Identification:

Scientific and common species name.

Diameter:

This is the trunk diameter as measured at breast height

(industry standard 4.5 feet above ground level).

Dripline radius:

Measurement of the tree's dripline from the trunk to the

farthest most branch tip.

Root Crown:

Assessment of the root crown area located at the base of

the trunk of the tree at soil level.

Trunk:

Assessment of the tree's main trunk from ground level

generally to the point of the primary crotch structure.

Limbs:

Assessment of both smaller and larger branching, generally

from primary crotch structure to branch tips.

Foliage:

Tree's leaves.

Overall Condition:

Describes overall condition of the tree in terms of structure

and vigor.

Dripline Environment:

Describes area directly beneath the tree (growing

environment).

Recommendation:

Specific maintenance requirements.

CROWN CLEAN OUT: This shall consist of the removal of all dead, dying, diseased, interfering, objectionable, obstructing, and weak branches, as well as selective thinning to lessen wind resistance.

DEEP ROOT FERTILIZATION (D.R.F.): A method employed to induce vigor and stimulate new root growth. This is used as a means of feeding a large tree, as well as deep watering at the same time. Water soluble fertilizers are mixed in water and hydraulically pumped with a probe into the ground, delivering water and nutrients directly to the root zone, allowing for uptake from the tree. In this way, vigor can be improved and new root growth stimulated.

Mr. Jack Coulter RE: Jones Property [APN 023-260-017] May 29, 2003 Page 12

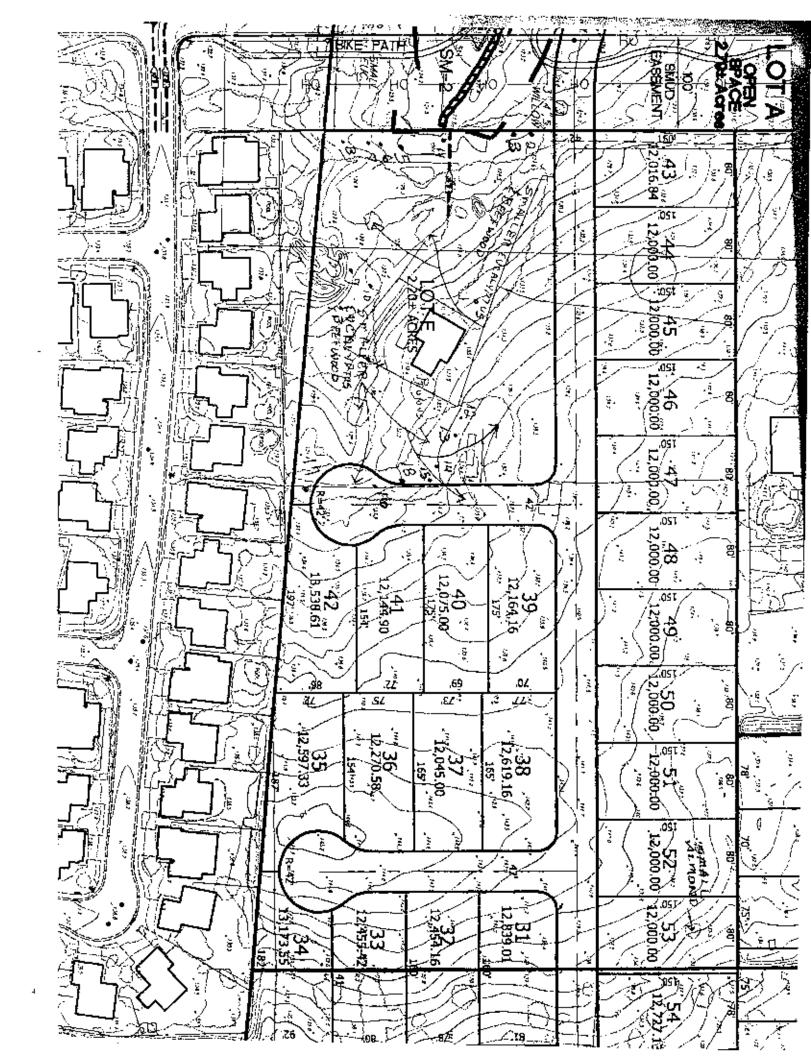
DEFINITIONS OF TERMS USED IN THIS REPORT

GOOD - A tree in this category has no trunk or root crown cavities or injuries; there is no indication of hollowness; no foreign objects are embedded in its structure; the root crown is above grade; there is no decay present except for small stubs; the structure is strong; the trunk is tapers; the bark thickness is normal; there is no fluxing; no fungus is evident; there is a below average amount of dead limbs and twigs present which is normal for the size and age of the species; there is no co-dominant branching present; there are no large callused areas and any small callusing present is vigorous and intact; there are no abnormally heavy insect infestations; the growth rate is and has been average or above; limb weight is not excessive; buds are normal size and viable; the leaf size, color, and density is normal or better; and barring any unforeseen negative effects, the life expectancy should exceed thirty years.

FAIR - There is no decay or indications of large hollow areas in the large limbs, root crown, or trunk; a few small callused-over foreign objects, e.g., nails, may be present, the structure is strong, no fungus is evident other than small saprophytes on exposed wood; some small, callusing injuries may be present, some small limbs may be dead and decaying but callus is forming at their base; some excessive limb weight may exist; there may be some minor fluxing; the amount of dead limbs and twigs present is within the normal range; some large callused areas may be present; some small cavities and areas of decay may be present; the growth rate is average or slightly below average; and some leaf size, color, and density may vary.

POOR - Significant cavities, dead areas, and decay may be present; the tree is actually defective; fungus fruiting bodies may be present; the amount of dead limbs and twigs is far above normal; major co-dominant branching with embedded bark may be present; buds are small and some may not be viable; leaves may be below average size and may be abnormal in color; significant pest damage may be present; and the predicted structural life and/or viability is less than ten years.

The ratings "good to fair" and "fair to poor" are used to describe trees that fall between the described major categories and have elements of both.



IInsant color separation Sheet head

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SIERRA NEVADA ARBORISTS

TOWNE DEVELOPMENT OF SACRAMENTO, INC.

WHISPER CREEK, UNIT #1: PFE 14 (Almond Ranch) PROPERTY (Placer County, California)

PRELIMINARY ARBORIST REPORT AND INVENTORY SUMMARY

Submitted by:

Edwin E. Stirtz, Principal Consulting Arborist ISA Certified Arborist WE-0510A SIERRA NEVADA ARBORISTS

Wayne R. McKee, Consulting Arborist ISA Certified Arborist WE-0959A SIERRA NEVADA ARBORISTS

August 7, 2003

916-784-1901 Fax 916-784-7940 Roseville, CA 95678 503 Anthony Court

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COPYRIGHT STATEMENT

This consultant's report, dated August 7, 2003, is for the exclusive and confidential use of Towne Development of Sacramento, Inc. concerning the Whisper Creek Unit #1: PFE 14 (Almond Ranch) Property project site located in Placer County, California exclusively, and may not be reproduced in whole or in part on other occasions without written permission of the Consultants, Sierra Nevada Arborists.



SIERRA NEVADA ARBORISTS

August 7, 2003

Mr. Jack Coulter
Towne Development of Sacramento, Inc.
775 Surrise Avenue, Suite 270
Roseville, California 95661

Arborist Report for the Whisper Creek Unit #1: PFE 14 (Almond Ranch)

Placer County, California

Dear Mr. Coulter:

RE:

On August 7, 2003, Sierra Nevada Arborists visited the Whisper Creek Unit #1: PFE 14 (Almond Ranch) project site located off PFE Road in Placer County, California. The purpose of this site visit was to inspect and evaluate the native trees located within the project site, and to prepare an Arborist Report following the Placer County Tree Preservation Ordinance (Article 12.16, Chapter 12.16.020) which requires an inventory and field identification of any single-trunked native trees 6" DBH or larger, as well as any multi-trunked native trees with an aggregate of 10" DBH or larger. The trees have been identified in the field with a round metal numbering tag which has been affixed to the tree's trunk. For your reference, the numbers utilized in this report correspond to the tree tag affixed to the tree, and those tree numbers have been rough-plotted on the map provided by Baker-Williams Engineering Group.

As you will see, 22 native trees were found on site comprised of five (5) Blue Oak (Quercus douglasii), sixteen (16) Pacific Willow (Salix lasiandra) and one (1) Cottonwood (Populus fremontii). This report also includes data for four (4) non-native Blue Gum Eucalyptus (Eucalyptus globulus) trees which were inventoried due to their size being 19" DBH or greater single-trunk or aggregate. At this juncture, one (1) tree has been recommended for removal due to structural defects which may pose a hazard if retained in a developed environment. Please note that this is a detailed, but cursory, look at the trees within the project site. Final impact assessments cannot be definitely determined until development plans have been finalized. At that time, additional impacts and/or removals may be more precisely defined and quantified, and specific recommended mitigative measures can be provided for each impacted tree on site. In the meantime, we have provided some General Preservation Recommendations which should be utilized as a guideline for the protection of the trees to be preserved within the development area.

Thank you for allowing Sierra Nevada Arborists to assist you with this project. Please feel free to give me a call if you have any questions or require additional information.

Sincerely,

Edwin E. Stirtz

ISA Certified Arborist WE-0510A

Elm & Sury

24 inches @ 3' above grade

Fair - pruned for utility line

Fair structure and fair vigor

Clean out crown

16 inches

line clearance

Clean out crown

18 inches

22 feet

21 fcet

Fair

Fair

Grasses/roadside cut 6' north of trunk/road shoulder/asphalt

Fair - embedded barbed wire

Fair structure and fair vigor

Grasses/road shoulder/asphalt

Fair - minor pruning for utility

24 feet

Fair Fair

TOWNE DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Almond Ranch)

August 7, 2003

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TREE#1 [aka #295]

Blue Oak

(Quercus douglasii)

DIAMETER

DRIPLINE RADIUS

ROOT CROWN TRUNK

LIMB\$

clearance FOL!AGE Fair

CONDITION DRIPLINE ENVIRONMENT

RECOMMENDATIONS

TREE#2 [aka #294]

Blue Oak (Quercus douglasii) DIAMETER

DRIPLINE RADIUS ROOT CROWN

LIMBS

TRUNK

FOLIAGE CONDITION

DRIPLINE ENVIRONMENT RECOMMENDATIONS

TREE#3 [aka #293] Blue Oak

(Quercus douglasii)

DIAMETER

DRIPLINE RADIUS ROOT CROWN

FOLIAGE

TRUNK

LIMBS

Fair Fair

Fair - minor pruning for utility line clearance; above average amount of deadwood

Fair

CONDITION DRIPLINE ENVIRONMENT

RECOMMENDATIONS

Fair structure and fair vigor

Grasses/road shoulder/asphalt Clean out crown

TOWNE DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Almond Ranch)

August 7, 2003

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TREE#4 DIAMETER : 7 inches, 8 inches

Pacific Willow DRIPLINE RADIUS : 17 feet (Salix lasiandra) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasscs/drainage RECOMMENDATIONS : Clean out crown

TREE#5 DIAMETER : 17 inches @ 3' above grade

Pacific Willow DRIPLINE RADIUS : 20 feet (Salix lasiandra) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair -- slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/drainage RECOMMENDATIONS : Clean out crown

TREE#6 DIAMETER : 4 inches, 7 inches, 8 inches

Pacific Willow DRIPLINE RADIUS : 14 feet (Salix lasiandra) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/drainage RECOMMENDATIONS : Clean out crown

TOWN'E DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Almond Ranch)

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TREE#7 Pacific Willow (Salix lasiandra) DIAMETER DRIPLINE RADIUS 10 feet ROOT CROWN Fair Fair TRUNK

Fair - slightly above average LIMBS

amount of deadwood

6 inches

FOLIAGE Fair

Fair structure and fair vigor CONDITION

DRIPLINE ENVIRONMENT Grasses/drainage Clean out crown RECOMMENDATIONS

TREE#8

Pacific Willow (Salix lasiandra)

4 inches, 6 inches, 7 inches, DIAMETER

8 inches, 9 inches

DRIPLINE RADIUS 17 feet ROOT CROWN Fair Fair TRUNK

Fair - slightly above average LIMBS

amount of deadwood

Fair FOLIAGE

Fair structure and fair vigor CONDITION

Grasses/drainage DRIPLINE ENVIRONMENT Clean out crown RECOMMENDATIONS

TREE#9

Pacific Willow

(Salix lastandra)

DIAMETER

2 inches, 4 inches, 4 inches,

5 inches

12 feet

DRIPLINE RADIUS ROOT CROWN Fair TRUNK Fair

LIMBS Fair - slightly above average

amount of deadwood

FOLIAGE Fair

CONDITION Fair structure and fair vigor

DRIPLINE ENVIRONMENT Grasses/drainage RECOMMENDATIONS Clean out crown

TOWNE DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Almond Ranch)

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TREE#10

Pacific Willow

(Salix lasiandra)

DIAMETER

3 inches, 3 inches, 3 inches,

4 inches, 5 inches

13 feet

DRIPLINE RADIUS

Fair ROOT CROWN Fair TRUNK

Fair - slightly above average LIMBS

amount of deadwood

Fair FOLIAGE

Fair structure and fair vigor CONDITION

Grasses/drainage DRIPLINE ENVIRONMENT Clean out crown RECOMMENDATIONS

TREE#11

Pacific Willow (Salix lasiandra) DIAMETER

DRIPLINE RADIUS ROOT CROWN

TRUNK

LIMBS

8 inches, 11 inches, 15 inches

22 feet Fair

Fair - slightly above average

amount of deadwood

FOLIAGE Fair

Fair structure and fair vigor CONDITION Riparian plants/drainage DRIPLINE ENVIRONMENT

Clean out crown RECOMMENDATIONS |

TREE#12

Pacific Willow

(Salix lasiandra)

DIAMETER

DRIPLINE RADIUS ROOT CROWN

TRUNK

LIMBS

7 inches, 8 inches, 9 inches

2 inches, 2 inches, 7 inches,

17 feet Fair

Fair

Fair

Fair – slightly above average amount of deadwood

FOLIAGE Fair

CONDITION DRIPLINE ENVIRONMENT Clean out crown

RECOMMENDATIONS

Fair structure and fair vigor Riparian plants/drainage

TOWNE DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Airond Ranch)

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TREE#13 DIAMETER : 5 inches, 11 inches

Pacific Willow DRIPLINE RADIUS : 18 feet (Salix lasiandra) ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE ; Fair

CONDITION : Fair structure and fair vigor DRIPLINE ENVIRONMENT : Riparian plants/drainage

RECOMMENDATIONS : Clean out crown

TREE#14 DIAMETER : 4 inches, 4 inches, 5 inches,

Pacific Willow 5 inches, 6 inches, 7 inches, (Salix lasiandra) 8 inches

DRIPLINE RADIUS : 22 feet ROOT CROWN : Fair TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor DRIPLINE ENVIRONMENT : Riparian plants/drainage

RECOMMENDATIONS : Clean out crown

TREE#15 DIAMETER : 6 inches, 7 inches, 8 inches,

Pacific Willow
(Salix lasiandra) DRIPLINE RADIUS

DRIPLINE RADIUS : 21 feet ROOT CROWN : Fair

TRUNK : Fair

LIMBS : Fair – slightly above average

amount of deadwood

10 inches

FOLIAGE : Fair

CONDITION : Fair structure and fair vigor

DRIPLINE ENVIRONMENT : Grasses/drainage RECOMMENDATIONS : Clean out crown

TOWNE DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Almond Ranch)

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TREE#16 DIAMETER 4 inches, 4 inches, 6 inches

Pacific Willow DRIPLINE RADIUS 26 feet

(Salix lasiandra) ROOT CROWN Poor - partial failure

> TRUNK Poor - leans west, nearly

> > horizontal to grade due to past

failure

8 inches

16 feet

LIMBS Fair **FOLIAGE** Fair

CONDITION Poor structure and fair vigor

DRIPLINE ENVIRONMENT Grasses/drainage

RECOMMENDATIONS Remove

TREE#17 DIAMETER Fremont Cottonwood DRIPLINE RADIUS

(Populus fremontii) ROOT CROWN Fair TRUNK

Fair

LIMBS Fair - slightly above average

amount of deadwood

FOLIAGE: Fair

CONDITION Fair structure and fair vigor

Grasses/drainage DRIPLINE ENVIRONMENT RECOMMENDATIONS Clean out crown

TREE#18 DIAMETER 8 inches, 8 inches, 9 inches

Pacific Willow DRIPLINE RADIUS 17 feet (Salix lasiandra) ROOT CROWN Fair

TRUNK Fair

LIMBS Fair - slightly above average

amount of deadwood

FOLIAGE Fair

CONDITION Fair structure and fair vigor

DRIPLINE ENVIRONMENT Grasses/asphalt RECOMMENDATIONS Clean out crown TOWNE DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Almond Ranch)

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TREE#19

Pacific Willow

(Şalix lasiandra)

6 inches, 6 inches, 9 inches, DIAMETER 10 inches

16 feet DRIPLINE RADIUS Fair ROOT CROWN

Fair TRUNK

Fair - slightly above average LIMBS

amount of deadwood

Fair FOLIAGE

Fair structure and fair vigor CONDITION

Grasses/drainage DRIPLINE ENVIRONMENT Clean out crown RECOMMENDATIONS

TREE#20

Blue Gum Eucalyptus (Eucalyptus globulus)

DIAMETER

DRIPLINE RADIUS ROOT CROWN

TRUNK

12 inches, 25 inches

30 feet Fair

Poor to fair – old callousing

wound, north side 3'-14' above grade with minor to moderate

decay

LIMBS

Fair - slightly above average

amount of deadwood

Fair FOLIAGE

Poor to fair structure and fair vigor CONDITION

Grasses/drainage DRIPLINE ENVIRONMENT

Clean out crown; inspect annually RECOMMENDATIONS

TREE#21 Pacific Willow (Salix lasiandra) DIAMETER

DRIPLINE RADIUS

ROOT CROWN

12 inches

16 feet

Poor to fair - minor defects/decay, north side

Fair TRUNK

LIMBS Fair - slightly above average

amount of deadwood

FOLIAGE Fair

Poor to fair structure and fair vigor CONDITION

Grasses/drainage DRIPLINE ENVIRONMENT Clean out crown RECOMMENDATIONS

TOWNE DEVELOPMENT OF SACRAMENTO, INC. RE: Whisper Creek Unit #1: PFE 14 (Almond Ranch) August 7, 2003

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TREE#22

Blue Gum Eucalyptus (Eucalyptus globulus)

DIAMETER

DRIPLINE RADIUS ROOT CROWN

TRUNK

LIMBS

Fair - slightly above average

amount of deadwood

19 inches

22 feet

Fair

Fair

FOLIAGE

Fair structure and fair vigor CONDITION

Grasses DRIPLINE ENVIRONMENT

Clean out crown RECOMMENDATIONS

TREE#23

Blue Gum Eucalyptus (Eucalyptus globulus) DIAMETER

DRIPLINE RADIUS

Fair - old callousing wound, north ROOT CROWN

side

19 inches

20 inches

20 feet

27 feet

TRUNK Fair

LEMBS Fair - slightly above average

amount of deadwood

FOLIAGE Fair

Fair structure and fair vigor CONDITION Grasses/gravel drive DRIPLINE ENVIRONMENT

RECOMMENDATIONS Clean out crown

TREE#24

Blue Gum Eucalyptus (Eucalyptus globulus)

DIAMETER

DRIPLINE RADIUS

ROOT CROWN

Fair TRUNK

Poor to fair - forks at 5' above grade; embedded bark

Fair - slightly above average LIMBS

amount of deadwood

Fair FOLIAGE

CONDITION Poor to fair structure and fair vigor

Grasses/gravel drive DRIPLINE ENVIRONMENT

Clean out crown; install single RECOMMENDATIONS

direct-pick cable to help support

primary crotch

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TREE#25

Blue Oak

(Quercus douglasii)

DIAMETER

DRIPLINE RADIUS

ROOT CROWN

TRUNK LIMBS 25 inches

35 feet Fair

: Fair - embedded barbed wired : Fair - above average amount of

deadwood; one-sided north and

Fair - embedded barbed wire

Fair - above average amount of

west

FOLIAGE

CONDITION

DRIPLINE ENVIRONMENT RECOMMENDATIONS

Fair
Fair structure and fair vigor

Grasses/gravel drive Clean out crown

ECOMMENDATIONS

Clean out

23 inches

deadwood

31 feet

Fair

TREE#26 Blue Oak

(Quercus douglasii)

DIAMETER

FOLIAGE:

DRIPLINE RADIUS ROOT CROWN

ROOT CROWN TRUNK

RECOMMENDATIONS

LIMBS :

: Fair : Fair structure and fair vigor

CONDITION : DRIPLINE ENVIRONMENT :

Grasses/gravel drive Clean out crown

TOWNE DEVELOPMENT OF SACRAMENTO, INC. Whisper Creek Unit #1: PFE-14 (Almond Ranch)

TREE INVENTORY SUMMARY

26	25	24		23	22	21	20	19	3.6	. 17		1.5	14	13	12	11	10	,	8	7	6	S	4	Ų.	2	-	
Blue Oak	Blue Oak	Blue Gum Rucalyphas		Blue Gum Eucalyptus	Blue Gum Eucalyptus	Pacific Willow	Blue Gum Eucalyptus	Pacific Willow	Pacific Willow	Fremont Cottonwood		Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Pacific Willow	Blue Oak	Blue Oak	Blue Oak	
(Querous douglasii)	(Quercus douglasii)	(Eucalyptus glabulus)		(Eucotypius globulus)	Blue Gum Eucalyptus (Euculyptus globulus)	(Sulix lasiandru)	(Eucalyptus globulus)	(Salte lasiandra)	(Sulix lasiandra)	(Populus fremontii)	一拉花地中国科林州 为北部	(Salix lasiandry)	(Salix lastandra)	(Salix lasiandra)	(Salix lasiandra)	(Salix lastandra)	(Salix laxandra)	(Salix lasiandra)	(Salix lasiandra)	(Salix lasiandra)	(Salix lasiandra)	(Salix laxiandra)	(Salix lastandra)	(Quercus douglasii)	(Quercus douglasii)	(Quercus douglasii)	
							12,25	6,6,9,10	8,8,9			6,7,8,10	4,4,5,5,6,7,8	5,11	2,2,7,7,8,9	8,11,15	3,3,3,4,5	2,4,4,5	4,6,7.8,9		4,7,8		7,8				
23	25	20		19	19	12	37	31	25	8		31	39	91	17	34	18	15	3.4	. 6	61	17	15	18	16	. 24	
31	35	20		27	22	16	30	16	17	16	- 36 Per	21	22	81		22	- 13	12	17	10	14	20	17	22	21	. 24	
		Х				X	X				P 44																
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			$\frac{1}{2}$. [_			_						_							_	
^	×	×		×	X	×	^	×	×		開発を信ぎを登録	~	×	×	×	×	x	×	×	×	×	×	X	×	×	×	
Clean out crown	Clean out crown	help support primary crotch	Clean out crown; install cable to	Clean out crown	Clean out crown	Clean out crown	Alterior product temmestric settle	Clean out crown	Clean out crown			Clean out grown	Clean out grown	Clean out grown	Clean out grown	Clean out crown	Clean out grown	Clean out crown	Clean out crown	Clean out grown	Clean out grown	Clean out crown	Clean out crown	Clean out crown	Clean out grown	Clean out crown	

TOTAL INVENTORIED TREES = 26 Trees (552 inches)
TOTAL RECOMMENDED REMOVALS = 1 Tree (14 inches)

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GENERAL PRESERVATION RECOMMENDATIONS

The following information is provided in an effort to protect those trees which may be impacted by construction within the project site. It should be noted that these recommendations are generic in nature. As plans are developed and refined, a more detailed evaluation of tree impacts and/or removals should be made by a Certified Arborist. At that time specific preservation recommendations may be made for individual trees within the project site.

MITIGATIVE OVERVIEW

In order to afford the greatest potential for tree preservation during construction, there are general guidelines to provide this protection. The critical root zone area for a tree should include the dripline radius measurement taken from the tree trunk to the tip of the farthest reaching branch. In some circumstances, such as with a one-sided tree, this measurement could be somewhat skewed. In these situations, the Project Arborist should determine the critical root zone area. Generally, encroachments should be held to no more than 20% of the critical root zone area where potential root damage could be moderate or significant. In limited situations, encroachment exceeding 20% of the critical root zone area may be possible provided that potential root damage is not severe. The critical root zone area should be fenced prior to any activities on the site.

Canopy impacts can also pose a detriment to preserved trees. Frequently overlooked are conflicts between low-hanging tree branches and necessary clearance beneath a tree for construction equipment or home building purposes. Canopy impacts should also be maintained at 20% or less.

PAD GRADING MITIGATIVE MEASURES

Grade Cuts.

Cuts within a dripline of a tree should be maintained at less than 20% of the critical root zone area. Grade cuts should be supervised by the Project Arborist and any damaged roots encountered should be root pruned and properly treated as soon as possible after excavation. Cut faces which will be exposed for more than 2-3 days should be covered with dense burlap fabric and watered to maintain soil moisture at least on a daily basis (or possibly more frequently during summer months).

Grade Fills.

Fill materials less than 1 foot in depth and encroaching less than 20% into the critical root zone area should not require special mitigative measures. Should fills exceed 1 foot in depth up to 20% of the critical root zone area, acration systems may serve to mitigate the presence of the fill materials.

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Should it be necessary to build fill materials on two or three sides of a tree, it is critical to provide for drainage away from the critical root zone area of the tree -- particularly when considering heavy winter rainfalls. Overland releases and subterranean drains dug outside the critical root zone area and tied directly to the main storm drain system are two possible options.

Structure Encroachment.

In some cases it may be necessary for a proposed home to encroach into the critical root zone area. Again, this encroachment should be maintained at less than 20%. In this situation, a slab foundation with an aeration system installed beneath the slab and footings excavated by hand may provide adequate root protection. Where tree roots tend to be shallow, even a hand-excavated footing can be detrimental. In this situation, a "post-tension" type slab may minimize root damage. If it is necessary for encroachment to exceed 20%, raised floor construction with a grade-beam type foundation footing may be a viable option.

When evaluating encroachment from a proposed structure the structure height and tree branch conflicts are critical to evaluate in order to ensure that no more than 20% of the tree's canopy requires removal.

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Specific Inventory Data/Maintenance Recommendations

Within this specific inventory data you will find the following information:

Tree Number: Corresponds to aluminum tag attached to the tree.

Species

Identification: Scientific and common species name.

Diameter: This is the trunk diameter as measured at breast height

(industry standard 4.5 feet above ground level).

Dripline radius: Measurement of the tree's dripline from the trunk to the

farthest most branch tip.

Root Crown: Assessment of the root crown area located at the base of

the trunk of the tree at soil level.

Trunk: Assessment of the tree's main trunk from ground level

generally to the point of the primary crotch structure.

Limbs: Assessment of both smaller and larger branching, generally

from primary crotch structure to branch tips.

Foliage: Tree's leaves.

Overall Condition: Describes overall condition of the tree in terms of structure

and vigor.

Dripline Environment: Describes area directly beneath the tree (growing

environment).

Recommendation: Specific maintenance requirements.

CROWN CLEAN OUT: This shall consist of the removal of all dead, dying, diseased, interfering, objectionable, obstructing, and weak branches, as well as selective thinning to lessen wind resistance.

DEEP ROOT FERTILIZATION (D.R.F.): A method employed to induce vigor and stimulate new root growth. This is used as a means of feeding a large tree, as well as deep watering at the same time. Water soluble fertilizers are mixed in water and hydraulically pumped with a probe into the ground, delivering water and nutrients directly to the root zone, allowing for uptake from the tree. In this way, vigor can be improved and new root growth stimulated.

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<u>DEFINITIONS OF TERMS USED IN THIS REPORT</u>

GOOD - A tree in this category has no trunk or root crown cavities or injuries; there is no indication of hollowness; no foreign objects are embedded in its structure; the root crown is above grade; there is no decay present except for small stubs; the structure is strong; the trunk is tapers; the bark thickness is normal; there is no fluxing; no fungus is evident; there is a below average amount of dead limbs and twigs present which is normal for the size and age of the species; there is no codominant branching present; there are no large callused areas and any small callusing present is vigorous and intact; there are no abnormally heavy insect infestations; the growth rate is and has been average or above; limb weight is not excessive; buds are normal size and viable; the leaf size, color, and density is normal or better; and barring any unforeseen negative effects, the life expectancy should exceed thirty years.

FAIR - There is no decay or indications of large hollow areas in the large limbs, root crown, or trunk; a few small callused-over foreign objects, e.g., nails, may be present, the structure is strong; no fungus is evident other than small saprophytes on exposed wood; some small, callusing injuries may be present, some small limbs may be dead and decaying but callus is forming at their base; some excessive limb weight may exist; there may be some minor fluxing; the amount of dead limbs and twigs present is within the normal range; some large callused areas may be present; some small cavities and areas of decay may be present; the growth rate is average or slightly below average; and some leaf size, color, and density may vary.

POOR - Significant cavities, dead areas, and decay may be present; the tree is actually defective; fungus fruiting bodies may be present; the amount of dead limbs and twigs is far above normal; major co-dominant branching with embedded bark may be present; buds are small and some may not be viable; leaves may be below average size and may be abnormal in color; significant pest damage may be present; and the predicted structural life and/or viability is less than ten years.

The ratings "good to fair" and "fair to poor" are used to describe trees that fall between the described major categories and have elements of both.

